

First name: Christophe Family name: Micheyl Middle name: Daniel
 DOB: April 28, 1969 Nationality: French Status: Married, two children

EDUCATION

1992-1995 Ph.D. in Experimental and Cognitive Psychology
 (obtained 09/25/95, *summa cum laude*), Lyon II University, Lyon, France.
 1987-1992 Graduate and Undergraduate in Psychology at Lyon II University, France
 1987 Baccalaureate (Economic Science), Lycée La Salle, Lyon, France

PROFESSIONAL EXPERIENCE

05/08/08 Research Assistant Professor
 Department of Psychology, University of Minnesota
 Minneapolis, MN (USA)

07/01/06-05/07/08 Research Associate
 Department of Psychology, University of Minnesota
 Minneapolis, MN (USA)

08/31/02-06/30/06 Research Scientist
 Research Laboratory of Electronics, Massachusetts Institute of Technology (MIT)
 Cambridge, MA (USA)

07/12/02-08/30/02 Visiting Scientist
 Institute for Cognitive and Computational Sciences, Georgetown University
 Washington, DC (USA)

06/01/01-07/30/02 Research Associate
 Department of Experimental Psychology, University of Cambridge
 & Visiting Scientist
 Medical Research Council (MRC) Cognition & Brain Sciences Unit (CBU)
 Cambridge, England (UK)

10/01/00-05/31/01 Chargé de Recherches 1^{ère} classe (Tenured Researcher)
 UMR 5020, Centre National de la Recherche Scientifique (CNRS)
 Lyon (France)

10/01/97-06/30/98 Visiting Scientist
 Cognition & Brain Sciences Unit (CBU), Medical Research Council (MRC)
 Cambridge, England (UK)

10/07/97-09/31/00 Chargé de Recherches 2^{ème} classe' (Tenured Researcher)
 UMR 5020, Centre National de la Recherche Scientifique (CNRS)
 Lyon (France)

07/15/96-09/31/97 Research Associate
 Department of Experimental Psychology, University of Cambridge
 & Visiting Scientist
 Medical Research Council, Applied Psychology Unit
 Cambridge (UK)

DISTINCTIONS

- 2007 Fellow of the Acoustical Society of America
 2001 Bronze Medal (Life Sciences) awarded by CNRS, France
 1999 Young Scientist Award, City of Lyon, France

RESEARCH AND EDUCATION GRANTS

- 2006 Co-investigator with A. Oxenham on National Institute of Health (NIH) funded grant (NIDCD R01 DC 05216)
 2006 Co-investigator with S. Shamma (Maryland University) and A. Oxenham on National Institute of Health (NIH) funded grant (NIDCD R01 DC 07657)
 2000-2001 Research Grant awarded by the French Ministry of Research
 1998 Research and Travel Grant awarded by the British Medical Research Council (MRC) for international collaborative project between MRC and Central National Recherche Scientifique (CNRS)

MENTORING OF UNDERGRADUATE, GRADUATE, AND PHD STUDENTS

- | | | |
|-----------|---------------|---|
| 2009 | L. O'Brien | Undergraduate, University of Minnesota, Music major |
| 2009 | K. Divis | Undergraduate summer project |
| 2008 | N. Heggem | Undergraduate summer project |
| 2006-2008 | M. Keebler | Undergraduate, University of Minnesota |
| 2006-2007 | C. Hunter | PhD in Psychology. University of Minnesota |
| 2000-2003 | K. Delhommeau | PhD in Neuroscience. Paris V University. |
| 2000-2003 | G. Gilbert | PhD in Biomedical Engineering. Lyon I University. |
| 2000-2003 | A. Norena | PhD in Neuroscience. Lyon I University. |
| 2000-2003 | H. Thai-Van | PhD in Medicine. Lyon I University. |
| 2000-2002 | X. Perrot | PhD in Cognitive Sciences. Lyon II University. |
| 1999/2000 | A. Bationo | Graduate in Cognitive Sciences. Lyon II University. |
| 1999/2000 | X. Perrot | Graduate in Cognitive Sciences. Lyon II University |
| 1998/1999 | N. Camille | Graduate in Psychology. Lyon II University. |
| 1998/1999 | C. Reinhart | Under-graduate in Auditory Physiology, Lyon I Univ. |
| 1997-2000 | N. Grimault | PhD in Acoustics/Psychoacoustics, Lyon I Univ. |
| 1997-2000 | S. Maison | PhD in Neuroscience, Lyon I University |

PARTICIPATION IN PHD COMMITTEES

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|------|--------------|---|
| 2005 | M. Elhilali | Electrical Engineering & Computer Science, Maryland Univ. |
| 2005 | J. Bernstein | Hearing & Speech Technology Program, MIT-Harvard, |
| 2004 | M. Qin | Hearing & Speech Technology Program, MIT-Harvard, |
| 2000 | S. Garnier | PHD in Biomedical Engineering. Lyon I University, France. |
| 1999 | C. Bey | PhD in Psychology. Paris V University, France. |

TEACHING

- 2006 Auditory scene analysis (Psychoacoustics), University of Minnesota
 2005-2006 Auditory scene analysis (Neural Coding), M.I.T.-Harvard
 2000/2001 Speech therapy (under and post-graduate students). Lyon I University.
 Audiology (under-graduate students). Lyon I University.

- Cognitive Sciences (pre-PhD students). Lyon II University.
- 1999/2000 Audiology (under- and post-graduate students). Lyon I University.
- Speech therapy (under-graduate students). Lyon I University.
- Neurosciences (post-graduate students). Lyon I University.
- 1998/1999 Audiology (under-graduate students). Lyon I University.
- Neurosciences (post-graduate students). Lyon I University.
- Cognitive Sciences (pre-PhD students). Lyon II University.

SCIENTIFIC SOCIETIES

- Fellow of the Acoustical Society of America (ASA), and elected to serve on the Technical Committee (Perception & Physiology) of that society
- Member of the Association for Research in Otolaryngology (ARO)

REVIEWER ACTIVITIES

- Journals
 - *Hearing Research*
 - *International Journal of Audiology*
 - *Journal of Association for Research in Otolaryngology (JARO)*
 - *Journal of Cognitive Neuroscience*
 - *Journal of Experimental Psychology: Human Perception and Performance*
 - *Journal of Neurophysiology*
 - *Journal of Neuroscience*
 - *Journal of Phonetics*
 - *Journal of the Acoustical Society of America (JASA)*
 - *Neuroscience*
 - *Perception*
 - *PloS Computational Biology*
- US and foreign government-funded institutions
 - *British Medical Research Council*
 - *Dutch Research Council*
 - *European Union*
 - *US Air Force Office of Research*

SCIENTIFIC PRODUCTION

A. Articles in International Peer-reviewed Journals with International Circulation

1. Micheyl C., Oxenham A.J. Subjective and Objective Psychophysical Measures of Auditory Stream Integration and Segregation. (in preparation)
2. Micheyl C., Divis, K., Wroblewski, D.M., Oxenham A.J. Do “F0 difference limens” really measure residue-pitch discrimination? (in preparation)
3. Mathias S.R., Micheyl C., Bailey P.I. Stimulus uncertainty and insensitivity to the direction of pitch change. (submitted for publication)
4. Ma L., Micheyl C., Yin P., Oxenham A.J., Shamma S. Behavioral measures of auditory streaming in ferrets. *Journal of Comparative Psychology* (resubmitted for publication)
5. Micheyl C., Keebler M. V., Oxenham A. J. Pitch perception and sound segregation in mixtures: role of frequency resolution before and after mixing. *Journal of the Acoustical Society of America* (provisionally accepted)

6. Dai H., Micheyl C. (2010) On the Choice of Adequate Randomization Ranges for Limiting the Use of Unwanted Cues in Same-Different, Dual-Pair, and Oddity Tasks. ***Attention, Perception & Psychophysics*** (in press)
7. Micheyl C., Hunter C., Oxenham A.J. (2010) Auditory Stream Segregation and the Perception of Across-Frequency Synchrony. ***Journal of Experimental Psychology: Human Perception and Performance*** (in press)
8. Dai H., Micheyl C. Psychophysical Reverse Correlation and Multiple Alternatives. (2010) ***Journal of Experimental Psychology: Human Perception and Performance*** (in press)
9. Micheyl, C., Oxenham, A.J. (2009) Pitch, harmonicity, and concurrent sound segregation: Psychoacoustical and neurophysiological findings. ***Hearing Research*** (in press)
10. Micheyl C., Dai H. Likelihood Ratio, Optimal decision rules, and relationship between Pc and d' in the dual-pair change-direction-identification paradigm. ***Attention, Perception & Psychophysics*** 71, 1426-1433.
11. Oxenham A.J., Micheyl C., Keebler M. V. (2009). Can temporal fine structure represent the fundamental frequency of unresolved harmonics? ***Journal of the Acoustical Society of America*** (in press)
12. Micheyl C., McDermott, J.H., Oxenham, A.J. (2009) Sensory noise explains auditory frequency discrimination learning induced by training with identical stimuli. ***Perception & Psychophysics***, 71, 5-7.
13. Elhilali M., Ma L., Micheyl C., Oxenham A.J., Shamma S.A. (2009) Temporal Coherence in the Perceptual Organization and Cortical Representation of Auditory Scenes. ***Neuron*** 61, 317-329.
14. Pressnitzer D., Sayles M., Micheyl C., Winter I.M. (2008) Perceptual organization of sound begins in the auditory periphery. ***Current Biology*** 18, 1124-1128.
15. Micheyl C., Kaernbach, C., Demany, L. (2008) An Evaluation of Psychophysical Models of Auditory Change Perception ***Psychological review*** 115, 1069-1083.
16. Bee M., Micheyl C. (2008) The “cocktail-party problem”: What is it? How can it be solved? And why should animal behaviorists study it? ***Journal of Comparative Psychology*** 122, 235-251.
17. Micheyl C., Dai, H. (2008) A General Area Theorem for the Same-Different (2IAX) Paradigm. ***Perception & Psychophysics*** 70, 761-764.
18. Gutschalk A., Micheyl C., Oxenham A.J. (2008) Neural correlates of perceptual awareness using informational masking. ***PLoS Biology*** 70, 761-764.
19. Gutschalk A., Micheyl C., Oxenham A.J. (2008) The pulse train auditory after-effect and the perception of rapid amplitude modulations. ***Journal of the Acoustical Society of America*** 123, 935-945.
20. Gutschalk A., Oxenham A.J., Micheyl C., Wilson E.C. Melcher, J.R.M. (2007) Human cortical activity during streaming without spectral cues suggests a general neural substrate for auditory stream segregation, ***Journal of Neuroscience*** 28, 13074-13081.
21. Thai-Van H., Micheyl C., Norena A., Vuillet E., Gabriel D., Collet L. (2007) Enhanced frequency discrimination thresholds near the audiogram edge in hearing-impaired individuals: a correlate of central neural plasticity induced by peripheral damages? ***Hearing Research*** 223, 14-22.
22. Micheyl C., Oxenham A.J. (2007) Across-frequency pitch discrimination interference between complex tones containing resolved harmonics. ***Journal of the Acoustical Society of America*** 121, 1621-1631.

23. Micheyl C., Carlyon R.P., Gutschalk A., Melcher J.R.M., Oxenham A.J., Rauschecker J.P., Tian B., Wilson E.C. (2007) The role of auditory cortex in the formation of auditory streams. *Hearing Research* 229, 1161-131.
24. Wilson E.C., Melcher J.R., Micheyl C., Gutschalk A., Oxenham A.J. (2007) Cortical fMRI activation to sequences of tones alternating in frequency: Relationship to perceived rate and streaming. *Journal of Neurophysiology* 97, 2230-2238.
25. Micheyl C., Messing D.P. (2006) Likelihood ratio, optimal decision rules, and correct-response probabilities in a signal-detection theoretic, equal-variance Gaussian model of the observer in the 4IAX paradigm. *Perception & Psychophysics* 68, 725-735.
26. Micheyl C., Bernstein J.G.W., Oxenham A.J. (2006) Detection and F0 discrimination of concurrent harmonic complex tones. *Journal of the Acoustical Society of America* 120, 1493-1505.
27. Micheyl C., Delhommeau K., Perrot X., Oxenham A.J. (2006) Influence of musical learning and psychoacoustical training on pitch discrimination. *Hearing Research* 219, 36-47.
28. Micheyl C., Tian B., Carlyon R.P., Rauschecker J.P. (2005) Perceptual organization of sound sequences in the auditory cortex of awake macaques. *Neuron* 6, 139-148
29. Micheyl C., Oxenham A.J. (2005) Comparing F0 discrimination in sequential and simultaneous conditions. *Journal of the acoustical Society of America* 188, 41-44.
30. Delhommeau K., Micheyl C., Jouvent R. (2005) Generalization of frequency discrimination learning across frequencies and ears: implications for underlying neural mechanisms in humans. *Journal of the Association for Research in Otolaryngology* 6, 171-179.
31. Gutschalk A., Micheyl C., Melcher, J.R., Rupp A., Scherg M., Oxenham A.J. (2005). Neuromagnetic correlates of streaming in human auditory cortex. *Journal of Neuroscience* 25, 5382-5388.
32. Gilbert G., Micheyl C. (2005). Influence of competing multi-talker babble on frequency-importance functions for speech measured using a correlational approach. *Acustica united with Acta Acustica*. 91, 145-154.
33. Carlyon R. P., Micheyl C., Deeks J. D., Moore B. C. J. (2004). Auditory processing of real and illusory changes in FM phase. *Journal of the acoustical Society of America* 116, 3629-3639.
34. Micheyl C., Oxenham A. J. (2004) Sequential F0 comparisons between resolved and unresolved harmonics: no evidence for across-pitch-mechanisms translation noise. *Journal of the acoustical Society of America* 116, 3038-3050.
35. Grimault, N., Micheyl C., Carlyon R. P., Bacon S.P., Collet L. (2003) Learning in discrimination of frequency or modulation rate: generalization to fundamental frequency discrimination. *Hearing Research*, 184, 41-50.
36. Micheyl C., Pulvermuller F., Carlyon R.P., Shtyrov Y., Hauk O., and Dodson T. (2003) The neurophysiological basis of the auditory continuity illusion. *Journal of Cognitive Neuroscience* 15, 747-758.
37. Kanwal J., Medvedev G., Micheyl C. (2003) Neurodynamics for auditory stream segregation: tracking sounds in the mustached bat's natural environment. *Network: Computation in Neural Systems* 14, 413-435.
38. Thai Van H., Micheyl C., Collet L., Moore B.C.J. (2003) Enhanced frequency discrimination near the hearing loss cutoff: a consequence of central auditory plasticity induced by cochlear damage? *Brain* 126, 2235-2245.
39. Morand-Villeneuve N., Micheyl C., Gagnieu M.C., Lemoine P., Sebert P., Collet L., Veuillet E. (2003) Influence of benzodiazepines on auditory perception. *Neuropsychopharmacology* 28, 778-786.

40. Morand-Villeneuve N., Garnier S., Grimault N., Veuillet E., Collet L., Micheyl C. (2002) Medial olivocochlear bundle activation and perceived auditory intensity in humans. *Physiology and Behavior* 77, 311-20.
41. Norena A., Micheyl C., Chery-Croze S., Collet L. (2002) Psychoacoustic characterization of the tinnitus spectrum: implications for the underlying mechanisms of tinnitus. *Audiology & Neuro-Otology* 7, 358-69.
42. Norena A., Micheyl C., Durrant J.D., Chery-Croze S., Collet L. (2002) Perceptual correlates of neural plasticity related to spontaneous otoacoustic emissions? *Hearing Research* 71, 66-.
43. Grimault N., Micheyl C., Carlyon R. P., Arthaud P., Collet L. (2002) Evidence for two pitch encoding mechanisms using a selective auditory training paradigm. *Perception & Psychophysics* 64(2), 189:97
44. Delhommeau K., Micheyl C., Jouvent R., Collet L. (2002) Transfer of frequency discrimination learning across durations and ears in auditory frequency discrimination. *Perception & Psychophysics* 64(3), 426-36.
45. Norena A., Micheyl C., Durrant J.D., Collet L. (2002) Loudness changes associated with the perception of an auditory after-image. *International Journal of Audiology* 41(3), 202-207.
46. Grimault N., Bacon S.P., Micheyl C. (2002) Auditory stream segregation on the basis of amplitude modulation rate. *Journal of the Acoustical Society of America* 111, 1340-1348.
47. Thai Van H., Micheyl C., Norena A., Collet L. (2002) Local improvement in auditory frequency discrimination is associated with hearing loss slope in cochlear-damaged subjects. *Brain* 125, 524-537.
48. Grimault N., Micheyl C., Carlyon R.P., Collet L. (2001) Perceptual auditory stream segregation of sequences of complex sounds in subjects with normal and impaired hearing. *British Journal of Audiology* 35, 173-182
49. Raphel C., Cian C., Barraud P.A., Micheyl C. (2001) Effects of supine body position and low radial accelerations on the visually perceived apparent zenith. *Perception & Psychophysics* 63:36-46.
50. Maison S., Durrant J., Gallineau C., Micheyl C., Collet L. (2001) Delay and temporal integration in medial olivocochlear bundle activation in humans. *Ear & Hearing* 22, 65-74.
51. Garnier S., Micheyl C., Arthaud P., Collet L. (2001) Effect of frequency content on categorical loudness normalization. *Scandinavian Audiology* 29, 253-9.
52. Norena A., Micheyl C., Chéry-Croze S. (2000) An auditory negative after-image as a human model of tinnitus. *Hearing Research* 149, 24-32.
53. Micheyl C., Arthaud P., Reinhart C., Collet L. (2000) Informational masking in normal-hearing and hearing-impaired listeners. *Acta Otolaryngologica (Stockholm)* 120, 242-246.
54. Maison S., Micheyl C., Collet L. (2000) Influence of focused auditory attention on cochlear activity in humans. *Psychophysiology* 38, 35-40.
55. Maison S., Micheyl C., Andéol G., Gallégo S., Collet L. (2000) Activation of medial olivocochlear efferent system in humans: influence of stimulus bandwidth. *Hearing Research* 140, 111-125.
56. Grimault N., Micheyl C., Carlyon R. P., Arthaud P., Collet L. (2000) Influence of peripheral harmonic resolvability on the perceptual segregation of complex tones differing in fundamental frequency. *Journal of the Acoustical Society of America* 108, 263-271.
57. Carlyon R. P., Moore B. C. J., Micheyl C. (2000) The effect of modulation rate on the detection of frequency modulation and mistuning of complex tones. *Journal of the Acoustical Society of America* 108, 304-315.

58. Micheyl C., Maison S., Carlyon R.P., Andéol G., Collet L. (1999) Contralateral suppression of transiently-evoked otoacoustic emissions by harmonic complex tones in humans. ***Journal of the Acoustical Society of America*** 105, 293-305.
59. Garnier S., Micheyl C., Arthaud P., Berger-Vachon C., Collet L. (1999) Temporal loudness integration and spectral loudness summation in normal-hearing and hearing-impaired listeners. ***Acta Otolaryngologica (Stockholm)*** 119, 154-157.
60. Gallégo S., Garnier S., Micheyl C., Tuy E., Morgon A., Collet L. (1999) Loudness growth functions and EABR characteristics in Digisonic cochlear implantees. ***Acta Otolaryngologica (Stockholm)*** 119, 234-238.
61. Garnier S., Micheyl C., Berger-Vachon C., Collet L. (1999). Categorical loudness scaling in normal-hearing and hearing-impaired listeners. I: Effect of signal duration. ***Audiology*** 38, 196-201
62. Maison S., Micheyl C., Collet L. (1999) Sinusoidal amplitude modulation alters contralateral noise suppression of evoked otoacoustic emissions in humans. ***Neuroscience*** 91, 133-138.
63. Perrot X., Micheyl C., Khalfa S., Collet L. (1999) Stronger bilateral efferent influences on cochlear biomechanical activity in musicians than in non-musicians. ***Neuroscience Letters*** 262, 167-170.
64. Khalfa S., Micheyl C., Pham E., Maison S., Veuillet E., Collet L. (1999) Tones disappear faster in the right ear than in the left. ***Perception & Psychophysics*** (in press)
65. Maison S., Micheyl C., Collet L. (1999) The medial olivocochlear efferent system in humans: structure and function. ***Scandinavian Audiology*** 28 Suppl. 51, 77-84
66. Gockel H., Carlyon R.P., Micheyl C. (1999) Context dependence of fundamental frequency discrimination: Lateralized temporal fringes. ***Journal of the Acoustical Society of America*** 106, 3553-3563.
67. Maison S, Micheyl C., Collet L. (1998) Contralateral frequency-modulated tones suppress transient-evoked otoacoustic emissions in humans. ***Hearing Research***. 117, 114-118
68. Gallégo S., Frachet B., Micheyl C., Truy E., Collet L. (1998) Cochlear implant performance and electrically-evoked auditory brainstem response characteristics ***Electroencephalography and Clinical Neurophysiology*** 108, 521-525.
69. Micheyl C., Carlyon R.P. (1998) Effects of temporal fringes on fundamental-frequency discrimination. ***Journal of the Acoustical Society of America*** 104, 3006-3018.
70. Khalfa S, Micheyl C., Veuillet E., Collet L. (1998) Peripheral auditory lateralization assessment using EOAEs. ***Hearing Research*** 121, 29-34
71. Giraud A.L., Garnier S., Micheyl C., Lina G., Chays A., Chéry-Croze S. (1997) Auditory efferents involved in speech-in-noise intelligibility. ***NeuroReport*** 8, 1779-1783
72. Khalfa S., Morlet T., Micheyl C., Morgon A., Collet L. (1997) Evidence of peripheral hearing asymmetry in humans: Clinical implications. ***Acta Otolaryngologica (Stockholm)*** 117, 192-196
73. Micheyl C., Moore B.C.J., Carlyon R. P. (1998) The role of excitation-pattern and temporal cues in the frequency and modulation-rate discrimination of amplitude-modulated tones. ***Journal of the Acoustical Society of America*** 104, 1039-1050
74. Gallégo S., Micheyl C. (1998) Intensity discrimination and auditory brainstem responses in cochlear-implant and normal-hearing listeners. ***Behavioral Neuroscience*** 112, 793-799
75. Micheyl C., Perrot X., Collet L. (1997) Relationship between auditory intensity discrimination in noise and olivocochlear efferent system activity in humans. ***Behavioral Neuroscience*** 111, 801-807
76. Micheyl C., Khalfa S., Perrot X, Collet L. (1997) Differences in cochlear efferent activity between musicians and nonmusicians. ***NeuroReport*** 8, 1047-1050

77. Maison S., Micheyl C., Collet L. (1997) Medial olivocochlear efferent system in humans studied with amplitude-modulated tones. *Journal of Neurophysiology* 77, 1759-1768
78. Maison S., Micheyl C., Chays A., Collet L. (1997) Medial olivocochlear efferent system stabilizes active cochlear micromechanical properties in humans. *Hearing Research* 113, 89-98
79. Lorenzi C., Micheyl C., Berthommier F., Portalier S. (1997) Modulation masking in listeners with sensorineural hearing loss. *Journal of Speech Language and Hearing Research* 40, 200-207
80. Gallégo S., Micheyl C., Berger-Vachon C., Truy E., Morgon A., Collet L. (1996) Ipsilateral ABR with cochlear implant. *Acta Otolaryngologica (Stockholm)* 116, 228-233.
81. Méric C., Micheyl C., Collet L. (1996) Attention and evoked otoacoustic emissions: attempts at characterization of intersubject variation. *Physiology and Behavior* 59, 1-9
82. Micheyl C., Collet L. (1996) Involvement of the olivocochlear bundle in the detection of tones in noise. *Journal of the Acoustical Society of America* 99, 1604-1610
83. Micheyl C., Morlet T., Giraud A.L., Collet L., Morgon A. (1995) Contralateral suppression of evoked otoacoustic emissions and detection of a multi-tone complex in noise. *Acta Otolaryngologica (Stockholm)* 115, 178-182
84. Micheyl C., Carbonnel O., Collet L. (1995) Medial olivocochlear system and loudness adaptation : differences between musicians and non-musicians. *Brain and Cognition* 29, 127-136.
85. Lorenzi C., Micheyl C., Berthommier F. (1995) Neuronal correlates of perceptual amplitude-modulation detection. *Hearing Research* 90, 219-227
86. Collet L., Veuillet E., Moulin A., Morlet T., Giraud A.L., Micheyl C., Chéry-Croze S. (1994) Contralateral auditory stimulation and otoacoustic emissions: a review of basic data in humans. *British Journal of Audiology* 28, 213-218
87. Micheyl C., Collet L. (1994) Interrelations between psychoacoustical tuning curves and spontaneous and evoked otoacoustic emissions. *Scandinavian Audiology* 23, 171-178

B. Book sections

1. Micheyl C., Shamma S., Elhilali M., Oxenham A.J. (2010) Sequential and simultaneous auditory grouping measured with synchrony detection. To appear in: *Advances in Auditory Physiology, Psychophysics and Models*.
2. Elhilali M., Ma L., Micheyl C., Oxenham A.J., Shamma S. (2010) Rate vs temporal code ? A spatio-temporal coherence model of the cortical basis of streaming. To appear in: *Advances in Auditory Physiology, Psychophysics and Models*.
3. Micheyl C., Shamma S., Oxenham A.J. (2007). Hearing out repeating elements in randomly varying multitone sequences: a case of streaming? In: *Hearing – from sensory processing to perception*, Kollmeier B., Klump G., Hohmann V., Langemann U., Mauermann M., Uppenkamp S., Verhey J. Eds., Springer, Berlin, pp. 267-274.
4. Micheyl C., Carlyon R.P., Cusack R., Moore B.C.J. (2004) Performance measures of auditory organization. In: *Auditory signal processing: physiology, psychoacoustics, and models*, Pressnitzer D., de Cheveigne A., McAdams S., Collet L. Eds., Springer, NewYork, pp. 203-211
5. Oxenham A.J., Bernstein , Micheyl C. (2004) Pitch perception of complex tones within and across ears and frequency regions. In: *Auditory signal processing: physiology, psychoacoustics, and models*, Pressnitzer D., de Cheveigne A., McAdams S., Collet L. Eds., Springer, New York, pp. 126-135.
6. Grimault N., Bacon S.P., Micheyl C. (2004) Auditory streaming without spectral cues in hearing-impaired subjects. In: *Auditory signal processing: physiology, psychoacoustics, and*

- models*, Pressnitzer D., de Cheveigne A., McAdams S., Collet L. Eds., Springer, New York, pp. 212-220.
7. Micheyl C., Collet L. (2000) Contralateral suppression of evoked otoacoustic emissions: psychoacoustic correlates. In : *Otoacoustic emissions and psychoacoustic performance*. J. Smurzynsky, R. Probst, F Grandori. Eds, Arti Grafiche Vaj, Milan, pp. 24-29.
 8. Micheyl C., Maison S., Collet L. (2000) Contralateral suppression of otoacoustic emission amplitude by contralateral harmonic complex tones: effects of F0, phase, and level. In : *Otoacoustic emissions and psychoacoustic performance*. J. Smurzynsky, R. Probst, F Grandori. Eds, Arti Grafiche Vaj, Milan, pp. 30-37.
 9. Micheyl C., Tirandaz N., Collet L. (1993). Modélisation des fonctions perceptives du système efférent olivo-cochléaire médian. Une contribution à l'étude des relations entre physiologie auditive et psychoacoustique. In: *Pluridisciplinarité dans les Sciences Cognitives*. Bousaid O., Brissaud M., Ritschard G., Royet J.-P. Eds. Hermès. Paris. pp. 211-237.
 10. Lorenzi, C., Micheyl, C., Berthommier, F. (1995). Sensitivity to amplitude modulation: Neurobiological modelling and psychoacoustical experiments. In: *Le Neuromimétisme*. Paugham-Moisy, H., Royet, J. P., Zighed, D. A. Eds. Hermès. Paris.
 11. Collet L., Veuillet E. Micheyl C., Amabile J.C., Morgon A. (1992). Involvement of medial olivo-cochlear system in loudness adaptation. In: *Auditory Physiology and Perception*. Advances in the Biosciences, Vol. 83, Cazals Y., Demany L. and Horner K. (Eds.), pp. 297-303. Pergamon Press plc., Oxford.

C. Invited talks

1. Micheyl C. (2007) The perceptual organization of sound sequences and its neural mechanisms. Séminaire du Laboratoire de Psychologie de la Perception, Ecole Normale Supérieure, Paris. 12/20/07. Invitation: Prof. C. Lorenzi
2. Micheyl C. (2006) Central neural adaptation and the build-up of auditory streaming. The Listening Brain. International Conference on the Auditory Cortex. MRC Institute of hearing Research, Grantham, England, 17-21/11/06. Invitation by Dr. C. Sumner and Prof. David Moore
3. Micheyl C., (2005) Auditory streaming: psychoacoustics and neurophysiological mechanisms. Symposium of the Midwinter Meeting of the Association for Research in Otolaryngology (ARO), Fairmont Hotel, New Orleans, 07/02/04. Invitation by Pr. T. Griffiths.
4. Micheyl C., (2004), Seminar of the Center for Language and Speech Processing, Johns Hopkins University, Maryland, 07/12/04. Invitation by Pr. A. G. Andreou.
5. Micheyl C., Oxenham A.J. (2004) Detection and discrimination of concurrent harmonic complexes in the presence of concurrent complexes. Workshop on auditory scene analysis, Wissenschaftskolleg, Hanse, Germany, 23/08/04. Invitation by Pr. C. Darwin
6. Micheyl C., Oxenham A.J. (2004) Auditory streaming: psychoacoustics and physiology. Neuromorphic Engineering Meeting, Telluride, Colorado. 16/07/04. Invitation by Pr. S. Shamma.
7. Micheyl C. (2004) Neural mechanisms behind the build-up of auditory stream segregation. MIT McGovern Institute for Brain Research & Dept. of Brain and Cognitive Sciences, MIT. 26/03/04. Invitation by Pr. C. Moore.
8. Micheyl C. (2002) Auditory stream segregation: some perceptual consequences and neurophysiological correlates. Northeastern University, Boston, MA. 16/12/02. Invitation by Dr. M. Florentine.

9. Micheyl C. (2002) Stream segregation in the auditory cortex. Eaton Peabody Laboratory of Auditory Physiology, Harvard University, Boston, MA. 20/12/2002. Invitation by Dr. S. Maison.
10. Micheyl C. (2002) The neural basis of stream segregation in the primary auditory cortex. 1/11/2002. Boston University, Boston, MA. Invitation by Pr. S. Colburn
11. Micheyl C. (2001) Vers une explication des difficultés d'écoute dans le bruit des malentendants. *Journées AIRDAME*. Paris. France. 24/03/01. Invitation by A. Dumont
12. Micheyl C. (2001) Perception dans le bruit : un nouvel éclairage. *Congrès National des Audioprothésistes Français*. Paris. France.
13. Micheyl C. (2000) Fitting in the real world: all the practical questions and problems. 5th *European Symposium on Paediatric Cochlear Implantation*. Antwerp, Belgique. 4-7/06/2000. Invitation by Pr. R. Battmer
14. Micheyl C. (2000) Masquage informationnel : vers une nouvelle explication des difficultés d'audition dans le bruit des malentendants. *Association des Diplômés en Audioprothèse de l'Université de Montpellier*. Invitation by M. Dejean. 15/10/2000.
15. Micheyl C. (1999) Perception de la hauteur fondamentale, résolution fréquentielle et organisation séquentielle des sons. Laboratoire de Psychologie Expérimentale. Université Paris V. Invitation by Dr. C. Lorenzi. 12/04/1999
16. Micheyl C. (1999) Le masquage informationnel. *Séminaire de Formation du Groupement d'Audioprothésistes Entendre*. Hôtel Mercure. Aéroport de Paris-Orly. Invitation by Dr. S. Garnier.
17. Micheyl C., Maison S., Collet L. (1999) Le système efférent cochléaire: corrélats perceptifs, modalités d'activation exogènes et endogènes. *Première Journée d'Etude "Imagerie cérébrale, neuropsychologie et neurophysiologie de l'audition"*; Groupe Audition, Société Française d'Acoustique, 04/06/1999, Université de la Sorbonne, Paris. Invitation by Dr. C. Lorenzi.
18. Collet L., Micheyl C. (1998) Contralateral acoustic suppression of otoacoustic emissions: psychoacoustic correlates. *Otoacoustic emissions and Psychoacoustic Performance*. 20-21/03. Basel, Switzerland. Invitation by Pr. R. Probst et J. Smurzynski.
19. Maison S., Micheyl C., Collet L. (1998) Le système efférent cochléaire est-il sectionné au cours d'une neurotomie vestibulaire ? *Journée Otologique de l'Hôpital Nord. Marseille*. 23/10. Invitation by Pr. Chays.
20. Micheyl C., Carlyon R.P. (1998) Contralateral suppression effects in humans. Role of the olivocochlear efferents. *MRC Institute of Hearing Research*. Royal Douth Hants Hospital, Southampton, UK. Invitation by Dr. R. Thornton et S. Kapadia 27/05/1998.
21. Micheyl C., Carlyon R.P. (1998) Temporal fringe effects in pitch discrimination. Seminar MRC Institute of Hearing Research. Nottingham, UK. 28/01. Invitation by Dr. M. Akeroyd.
22. Micheyl C., Carlyon R.P. (1998) Temporal fringes effects on pitch discrimination. *Department of Psychology, Goldsmith College, University of London*. London, UK. 04/03. Invitation by Dr. Custance.
23. Micheyl C. (1998) Implant cochléaire et psychoacoustique. *Congrès du Groupe pour l'Etude et l'Optimisation du Réglage des Implants Cochléaires*. Palavas-les-flots, 4/12. Invitation by J-M. Chanal.
24. Micheyl C. (1998) Le masquage informationnel : face cachée des surdités de perception ? *Congrès de la Société Française d'Audiologie (SFA) Clermont-Ferrand*. 12-13/12. Invitation by Pr. P. Avan

25. Micheyl C., Maison S., Collet L. (1997) Function of the efferent system studied using contralateral suppression of otoacoustic emissions in humans. *Communication and Neuroscience Department. University of Keele (UK) 5/03/97*. Invitation by Pr. C. Hackney.
26. Micheyl C., Collet L. (1997) Système efférent et perception dans le bruit. *3ème Congrès de la Société Française d'Audiologie (SFA). Paris. 23-24/01*.
27. Micheyl C., Collet L. (1995) Implications du Système Efférent Olivocochléaire Médian dans la Perception Auditive. *Séminaire "Jeunes Chercheurs" de la Société Française d'Acoustique. 18-19/05. Lyon. France*.
28. Micheyl C., Lorenzi C. (1993) Modélisation du système auditif périphérique et intermédiaire. *Centre de Recherche en Psychologie Cognitive (CREPCO - URA CNRS 182) - Département de Psychologie Cognitive et Expérimentale. Université de Provence. 16/04* Invitation by Pr. C. Bastien.
29. Micheyl C., Lorenzi C. (1992) Modélisation neuromimétique du système auditif périphérique. *Laboratoire de Physiologie Neurosensorielle (CNRS URA 180) Université Claude-Bernard/Lyon I*. Invitation by Pr. A. Holley.
30. Micheyl C., Collet L. (1992) Otoémissions acoustiques et sélectivité fréquentielle. *Séminaire "Jeunes Chercheurs" la Société Française d'Acoustique. 6-7/11. Gradignan. France*.

D. Other communications

a. TALKS

1. Micheyl C. Shamma S., Oxenham AJ (2006) Detecting repeating targets in randomly varying multi-tone backgrounds: a case of streaming? *International Symposium on Hearing, 18/08/06-23/08/06, Cloppenburg, Germany*.
2. Micheyl C., Oxenham, A.J. (2004) Detection and discrimination of concurrent harmonic complex tones. *147th Meeting of the Acoustical Society of America. 24/05/2004, New York*.
3. Micheyl C., Carlyon R.P., Cusack R., Moore B.C.J. (2003) Performance measures of auditory organization. *13th International Symposium on Hearing. 08/2003. Dourdans, France*.
4. Oxenham A.J., Bernstein, Micheyl C. (2003) Pitch perception of complex tones within and across ears and frequency regions. *13th International Symposium on Hearing. 08/2003. Dourdans, France*.
5. Grimault N., Bacon S.P., Micheyl C. (2003) Auditory streaming without spectral cues in hearing-impaired subjects. *13th International Symposium on Hearing. 08/2003. Dourdans, France*.
6. Carlyon R.P., Micheyl C., Deeks J. (2003) Coding of FM and the continuity illusion. *13th International Symposium on Hearing. 08/2003. Dourdans, France*.
7. Grimault N., Bacon S.P., Micheyl C. (2001) Auditory streaming without spectral cues. *141th Meeting of the Acoustical Society of America, Chicago, IL, 4-8/06/2001*.
8. Micheyl C., Arthaud P., Reinhart C., Collet L. (1999) Ear dominance in informational masking. *Collegium of Oto-Rhino-Laryngologicum Amicitiae Sacrum. 22-25/08/1999. Lyon. France*.
9. Norena A., Micheyl C., Chéry-Croze S. (1999) Perceptual changes in tinnitus subjects: Correlates of cortical reorganization. *Sixth International Tinnitus Seminar. 5-9/07/1999. Cambridge. UK*.
10. Norena A., Micheyl C., Chéry-Croze S. (1999) The Zwicker tone (ZT) as a model of phantom auditory perception. *Sixth international Tinnitus Seminar. 5-9/07/1999. Cambridge. UK*.
11. Micheyl C., Maison S., Carlyon R.P., Collet L. (1998) Contralateral suppression of evoked otoacoustic emissions by harmonic complex tones. *Otoacoustic emissions and Psychoacoustic Performance. 20/21-03-1998. Basel, Switzerland*.

12. Maison S., Micheyl C., Banal F., Cambou M., Collet L. (1998) Influence de l'attention auditive sélective en fréquence sur les mécanismes auditifs périphériques chez l'humain. 66^{ème} Congrès de la Société Française de Physiologie, Lyon, France. Septembre 1998.
13. Maison S., Micheyl C., Meller R., Chays A., Magnan J., Collet L. (1998) Le faisceau olivocochléaire efférent médian chez l'humain est-il sectionné au cours d'une neurotomie vestibulaire ? 105^{ème} Congrès Français d'Oto-Rhino-Laryngologie et de Pathologie Cervico-Faciale, Paris, France. Octobre 1998.
14. Gallégo S., Garnier S., Micheyl C., Truy E., Morgon A., Collet L. (1998) Relationship between loudness growth functions and EABR input-output functions. *Collegium Oto-Rhino-Laryngologicum*, 22-26/08/1998. Copenhagen, Danemark.
15. Maison S., Micheyl C., Collet L. (1998) Contralateral acoustic suppression of evoked otoacoustic emissions: characterization of efficient stimulus parameters. *Midwinter Meeting of Association for Research in Otolaryngology*, St. Petersburg Beach, Floride, Etats-Unis. 02/98.
16. Maison S., Micheyl C., Gallineau C., Durrant J.D., Collet L. (1997) Contralateral attenuation of transient evoked otoacoustic emissions by amplitude-modulated noise. *XVe Biennial Symposium of the International Evoked Response Audiometry Study Group*, Memphis, Etats-Unis. 06/97.
17. Micheyl C., Carlyon R.P. (1997) Temporal over-integration of pitch. *British Society of Audiology Short Papers Meeting on Experimental Studies of Hearing and Deafness*. 22/23-09/97. Nottingham, England.
18. Micheyl C., Carlyon R.P. (1997) The effect of temporal fringes on the fundamental-frequency discrimination of resolved and unresolved harmonic complexes. *133rd Meeting of the Acoustical Society of America*. 15/20-06-1997. State College, Pennsylvania, USA.
19. Maison S., Micheyl C., Collet L. (1996) Contralateral attenuation of evoked otoacoustic emissions by amplitude-modulated tones. *Midwinter Meeting of Association for Research in Otolaryngology*, St. Petersburg Beach, Floride, Etats-Unis. /02
20. Durrant J.D., Maison S., Micheyl C., Gallineau C., Collet L. (1996) Delay of contralateral suppression of transient otoacoustic emissions. *XVe Biennial Symposium of the International Evoked Response Audiometry Study Group*, Memphis, Etats-Unis.
21. Micheyl C., Gallégo S., Willermoz B., Guérin B., Truy E., Collet L., Morgon A. (1995) Intensity discrimination in cochlear implanted patients: Relationship with device setting. *III^o International Symposium on Cochlear Implants*. 28-30/04. Paris. France.
22. Micheyl C., Collet L. (1995) On the role of the olivocochlear system in auditory perception in humans. *XIV^o Biennial International Symposium of the International Evoked Response Audiometry Study Group (IERASG)*. 27-31/08. Lyon. France.
23. Micheyl C., Perrot X., Collet L. (1995) Involvement of medial olivocochlear system in intensity discrimination in noise. *XIV^o Biennial International Symposium of the International Evoked Response Audiometry Study Group (IERASG)*. 27-31/08. Lyon. France.
24. Gallégo S., Micheyl C., Berger-Vachon C., Truy E., Morgon A., Collet L. (1995). A new method for ipsilateral ABR with cochlear implant. *Meeting of the Collegium Oto-Rhino-Laryngologicum Amicitiae Sacrum*. Salzburg. Austria. 2-3/09
25. Lorenzi C., Micheyl C., Berthommier F. (1994) Neuronal correlates of amplitude modulation detection : neurobiological modeling and psychoacoustical experiments. *Colloque Neuromimétisme - Association Internationale pour le Développement de la Recherche Interdisciplinaire (AIDRI)*. 20-24/06. Lyon, France.

26. Micheyl C., Morlet T., Giraud A.L., Collet L., Morgon A. (1994) Contralateral suppression of evoked otoacoustic emissions and detection of a multitone complex in noise. *Meeting of the Collegium Oto-Rhino-Laryngologicum Amicitiae Sacrum*. 4-7/09. Estoril. Portugal.
27. Lorenzi C., Micheyl C., Tirandaz N. (1992) Etude d'un modèle d'audition périphérique. *XXV^e Congrès International de Psychologie*. 19-24/07. Bruxelles. Belgium.
28. Collet L., Veuillet E., Micheyl C., Amabile J.C., Morgon A. (1991). Involvement of medial olivo-cochlear system in loudness adaptation. *IXth International Symposium on Hearing*. Carcans. France. 9-14/06.

b. POSTERS

1. Micheyl C., Oxenham (2009) Psychophysical measures of auditory stream segregation. *32th midwinter meeting of the association for research in otolaryngology (ARO)*, Baltimore, MD, Feb 14-19
2. Micheyl C., Keebler M.V., Oxenham A.J. (2009) Influence of instantaneous frequency fluctuations on frequency discrimination. *32th midwinter meeting of the association for research in otolaryngology (ARO)*, Baltimore, MD, Feb 14-19
3. Micheyl C., Kaernbach C., Demany L. (2009) Psychophysical models of auditory change perception. *32th midwinter meeting of the association for research in otolaryngology (ARO)*, Baltimore, MD, Feb 14-19
4. Pressnitzer D., Micheyl C., Sayles M., Winter I.M. (2007) Responses to long-duration tone sequences in the cochlear nucleus. *30th midwinter meeting of the association for research in otolaryngology (ARO)*, Denver, CO, Feb 10-15
5. Pingbo L.M., Elhilali M., Fritz J., Micheyl C., Oxenham A., Shamma S. (2007) A neurophysiological study of auditory stream segregation in ferret auditory cortex. *30th midwinter meeting of the association for research in otolaryngology (ARO)*, Denver, CO, Feb 10-15
6. Micheyl C., Oxenham A.J. (2006) The detection of across-frequency differences in fundamental frequency. *29th midwinter meeting of the association for research in otolaryngology (ARO)*, Baltimore, MD, Feb 5-9
7. Micheyl C., Oxenham A.J. (2006) Across-frequency interactions in pitch perception. *29th midwinter meeting of the association for research in otolaryngology (ARO)*, Baltimore, MD, Feb 05-09
8. Gutschalk A., Melcher J.R.M., Micheyl C., Wilson E.C., Oxenham A. (2006) Neural correlates of streaming without spectral cues in human auditory cortex. *29th midwinter meeting of the association for research in otolaryngology (ARO)*, Baltimore, MD, 02/05-09/06.
9. Wilson, E.C., Melcher, J., Micheyl C., Gutschalk A., Oxenham A.J. (2005) Auditory streaming in humans: possible fMRI correlates in auditory cortex. *28th midwinter meeting of the association for research in otolaryngology (ARO)*, New Orleans, LA, 02/19-24/06.
10. Micheyl C., Oxenham A.J. (2005) Hearing out concurrent harmonic complex tones. *28th midwinter meeting of the association for research in otolaryngology (ARO)*, New Orleans, LA, 02/19-24/06.
11. Wilson E.C., Melcher J.R.M., Micheyl C., Oxenham A.J. (2004) Neural correlates of auditory stream segregation in humans using fMRI. *27th midwinter meeting of the association for research in otolaryngology (ARO)*, Daytona Beach, FL, 02/19-24/06.
12. Micheyl C., Tian B., Carlyon R.P., Rauschecker J.P. (2003) Neural correlates of perceptual stream segregation in the auditory cortex of awake monkeys. *33rd Annual Meeting of the Society for Neuroscience, New Orleans, 11/03*

13. Micheyl C., Oxenham A.J. (2003) Further tests of the “two pitch mechanisms” hypothesis. *Meeting of the Acoustical Society of America, Nashville, 04/03*
14. Grimault, N., Micheyl C., Carlyon R.P., Bacon S.P., Collet L. (2003) Learning in discrimination of frequency or modulation rate: generalization to fundamental frequency discrimination. *Meeting of the Acoustical Society of America, Nashville, 04/03*
15. Kanwal J.S. Medvedev A.V., Micheyl C. (2003) The neural basis of stream segregation in the auditory cortex. Twenty-Sixth Midwinter Research Meeting of the Association for Research in Otolaryngology, Dayton Beach, FL, 02/03
16. Micheyl C., Tian B., Carlyon R.P., Rauschecker J.P. (2003) The neural basis of stream segregation in the auditory cortex. Twenty-Sixth Midwinter Research Meeting of the Association for Research in Otolaryngology, Dayton Beach, FL, 02/03
17. Carlyon R.P., Micheyl C., Deeks J.M., Moore B.C.J. (2002). FM phase and the continuity illusion. *Meeting of the Acoustical Society of America*. June 2002.
18. Grimault, N., Bacon S.P., Micheyl C. (2001) Auditory streaming without spectral cues. *Meeting of the Acoustical Society of America*. June 2002.
19. Gallégo S., Micheyl C. (2000) Intensity discrimination and ABR compared in Digisonic cochlear implant users and normal-hearing listeners. *5th European Symposium on Paediatric Cochlear Implantation*. Antwerp, Belgique. 4-7/06/2000.
20. Maison S., Micheyl C., Duclaux R., Collet L. (1996) Contralateral attenuation of evoked otoacoustic emissions by amplitude-modulated tones. *Midwinter Research Meeting of the Association for Research in Otolaryngology (ARO)*. 4-8/02. StPetersbourg Beach. Florida. USA.
21. Raphel C., Micheyl C., Barraud P.A. (1996) Effects of low radial accelerations and body positions on visually perceived eye level. *19th European Conference on Visual Perception*. 9-13/09. Strasbourg, France
22. Djenali D., Diallo M., Micheyl C., Berger-Vachon C. (1995) Distortion products modelling using an active electrical cell. XIV. Biennial International Symposium of the International Evoked Responses Study Group (IERASG). 27-31/08. Lyon. France.
23. Djenali D., Diallo M., Micheyl C., Berger-Vachon C. (1995) Distortion products modelling using an active electrical cell. XIV. *Biennial International Symposium of the International Evoked Responses Study Group (IERASG)*. 27-31/08. Lyon. France.
24. Micheyl C., Durrant D.J., Collet L. (1994) Central masking of clicks. *70th Midwinter Research Meeting Association for Research in Otolaryngology (ARO)*. 6-10/02. StPetersburg Beach. Florida. U.S.A.
25. Giraud A.L., Micheyl C., Collet L. (1994) Auditory perception: a temporal role of the olivocochlear efferents ? *European Congress on Psychophysiology*. 7-10/04. Barcelona. Spain.
26. Micheyl C., Collet L. (1993) Involvement of medial olivocochlear system in detection in noise. *125th Meeting of the Acoustical Society of America (ASA)*. 17-21/05. Ottawa. Canada.

E. Doctoral dissertation

Micheyl C. (1995) *Implications des mécanismes cochléaires actifs et du système efférent olivocochléaire médian dans la perception auditive*. Lyon II (Lumière) University. 26/09/95.

F. Patents / software licences

1. Micheyl C., Norena A. (2001) System for the generation of acoustic signals for patients suffering from tinnitus. International patent. CNRS, France.
2. Micheyl C. (1993-1997) Computerized audiometry system. Software licence N° L93145 CNRS/ Lyon I university and Audiologie, Prothese, Innovation (SA).