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# Advances in Primate Auditory Neurophysiology

## *Satellite symposium at SFN 2003*

November 7, 2003 (Friday), New Orleans Morial Convention Center (Room: 255)

### Final Program

8:00-8:50 Registration and Coffee

8:50-9:00 **Introduction** (Xiaoqin Wang)

9:00-9:30 **Keynote:** Jon Kaas (Vanderbilt University), *The evolution of the auditory cortex*

#### Session I: Auditory Cortex Organization and Function (Chair: Yale Cohen)

9:30-9:50 Biao Tian and J. Rauschecker (Georgetown University), *Parallel processing streams in primate auditory cortex*

9:50-10:10 David Blake and M. Merzenich (UCSF), *Tone pip reverse correlation and AI receptive fields*

10:10 – 10:30 Pingbao Yin<sup>1,2</sup>, J. Fritz<sup>3</sup>, M. Mishkin<sup>2</sup> (<sup>1</sup>University of California, Davis, <sup>2</sup>NIMH-NIH, and <sup>3</sup>University of Maryland), *Auditory response properties of rostral superior temporal cortex neurons in the awake monkey*

10:30 - 11:00 **COFFEE BREAK**

11:00-11:20 Edward Bartlett and X. Wang (Johns Hopkins University), *Persistent modulation by temporal context in auditory cortex of the awake marmoset*

11:20-11:40 Mitch Sutter, K. O'Conner, and C. Petkov (University California, Davis), *Psychophysical and neural correlates of auditory perceptual fill-in*

11:40-12:00 Mal Semple, B. Scott, B. Malone (NYU), *Envelope processing in the auditory cortex of awake rhesus macaques*

12:00-12:20 Michael Brosch, J. Goldschmidt, E. Selezneva, E. Oshurkova, A. Melikyan, and H. Scheich (Leibniz Institute), *Context affects neuronal firing in primate auditory cortex*

12:20-12:40 Steven W. Cheung, B. Godey, C.A. Atencio, B. Bonham, C.E. Schreiner (UCSF), *Representation of Frequency Modulation in the Primary Auditory Cortex of the Squirrel Monkey*

12:40 – 2:00 **LUNCH (on your own)**

#### Session II: Higher Cortical Areas, Multisensory Processing (Chair: Lynn Luethke)

2:00-2:20 Troy Hackett<sup>1</sup>, J. Smiley<sup>2</sup>, C. Schroeder<sup>2,3</sup> (<sup>1</sup>Vanderbilt University, <sup>2</sup>Nathan Kline Institute

for Psychiatric Research, <sup>3</sup>Albert Einstein College of Medicine), *Multisensory integration in primate auditory cortex*

- 2:20-2:40 Yale Cohen<sup>1</sup>, G. Gifford III<sup>1</sup>, M. Hauser<sup>2</sup>, and K. MacLean<sup>1</sup> (<sup>1</sup>Dartmouth College and <sup>2</sup>Harvard University), *Context and referent category dependant auditory responses in ventral prefrontal cortex*
- 2:40-3:00 Lizabeth Romanski<sup>1</sup>, M. Hauser<sup>2</sup>, and B. Averbeck<sup>1</sup> (<sup>1</sup>University of Rochester and <sup>2</sup>Harvard University), *Responses of auditory neurons in ventrolateral prefrontal cortex to species-specific vocalizations*
- 3:00-3:20 Asif Ghazanfar<sup>1</sup>, C. Darwin<sup>2</sup>, and N. Logothetis<sup>1</sup> (<sup>1</sup>Max Planck Institute for Biological Cybernetics and <sup>2</sup>University of Sussex), *Neural correlates of individual recognition by voice in rhesus monkeys*
- 3:20-3:40 Jennifer Groh, K. Kelly, R. Metzger, O. Mullette-Gillman, A. Underhill, and U. Werner-Reiss (Dartmouth College), *Visual-auditory integration: the role of eye-position information*
- 3:40-4:00 Luis Populin (U. Wisconsin, Madison), *Sound localization in monkey with unrestrained head*

4:00-4:30 **COFFEE BREAK**

## **Session II (continue): Higher Cortical Areas, Multisensory Processing (Chair: Xiaoqin Wang)**

- 4:30-4:50 Andrew Bell and D. Munoz (Queens University), *Using auditory and visual stimuli to study the behavioral and neuronal consequences of covert orienting*
- 4:50-5:10 Anja Schlack, S.J. Sterbing-D'Angelo, K. Hartung, K.P. Hoffmann, and F. Bremmer (Ruhr-Universität Bochum), *Macaque area VIP encodes visual and auditory space in multiple reference frames*
- 5:10-5:30 Mitchell Steinschneider, Y. Fishman, and J. Arezzo (Albert Einstein School of Medicine) *Gamma-band activity in primary auditory cortex (A1) of the awake monkey*
- 5:30-5:50 John Brugge (University of Wisconsin, Madison and University of Iowa), *Auditory cortex of human: functional organization and connectivity*
- 5:50-6:10 Bernd Lütkenhöner<sup>1</sup>, K. Krumbholz<sup>1,2</sup>, A. Seither-Preisler<sup>1</sup>, and R. Patterson<sup>2</sup> (<sup>1</sup>Münster University and <sup>2</sup>University of Cambridge), *Magnetoencephalography studies of auditory structure and function, and the interaction with studies in non-human primates*
- 6:10-6:30 Amy Poremba<sup>1</sup>, M.M. Malloy<sup>3</sup>, R.C. Saunders<sup>3</sup>, R.E. Carson<sup>2</sup>, P. Herscovitch<sup>2</sup>, and M. Mishkin<sup>3</sup> (<sup>1</sup>Univ. of Iowa, <sup>2</sup>CC-NIH, <sup>3</sup>LN-NIMH), *FDG-PET brain imaging in awake rhesus monkeys: mapping auditory cortex processing during a variety of experimental*

*conditions*

6:30-6:40      **Travel Award Announcement** (Lynn Luethke)

6:40-6:50      **Future Plans** (Yale Cohen)