

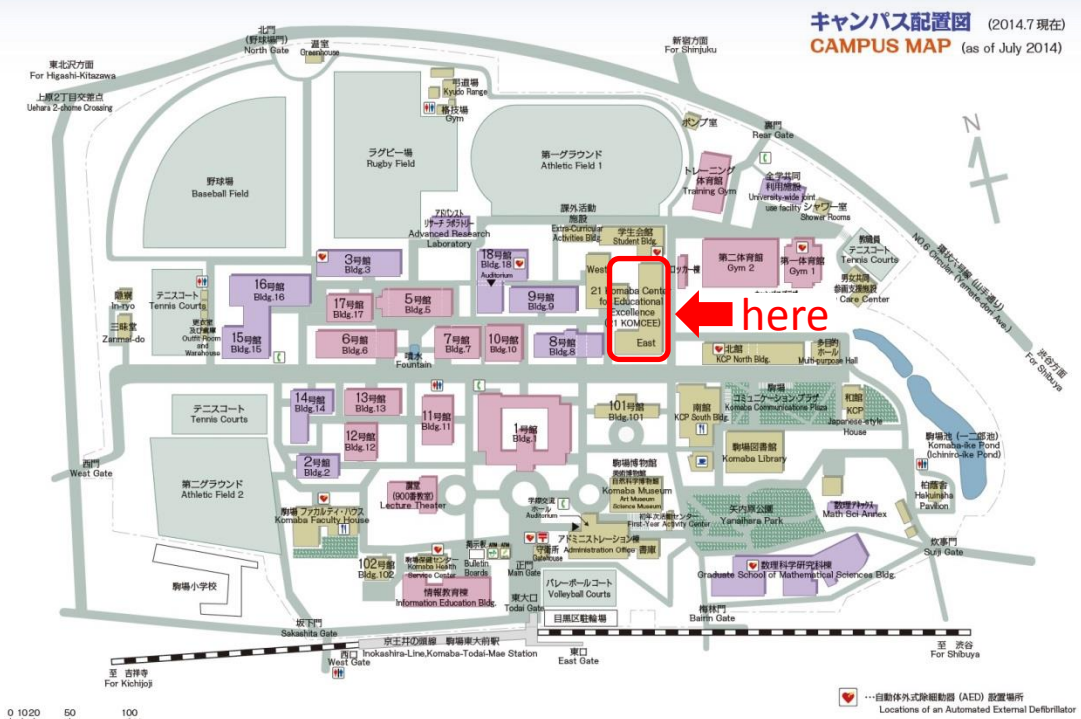
Workshop on Evo-Devo of Vocal Learning and Plasticity

Date and Time: July 31st (Sun), 1:10 - 5:30PM
Venue: Komcee-East B1F K011, Komaba, The University of Tokyo
Chair: Kazuo Okanoya, **Commentator:** Atsushi Iriki



Speakers:

- Erich Jarvis
- Daniel Takahashi
- Kazuhiro Wada
- Tomonari Akamatsu
- Kohta Kobayashi
- Yoshimasa Seki
- Kazuo Okanoya



Co-sponsored by Center for Evolutionary Cognitive Science (The University of Tokyo), Okanoya Laboratory (The University of Tokyo), The Science of Mental Time (Mext Grant-in-Aid for Scientific Research on Innovative Areas)

Human speech depends on our ability for vocal learning. Vocal learning evolved independently in humans, whales, bats, and elephants among mammals, and in songbirds, parrots and hummingbirds among birds. How this trait evolved? What is the relationship between vocal development and vocal learning? What are common neural and molecular features across species? What are the differences? In this symposium, we gather specialists in this field and discuss Evo-Devo of vocal learning and plasticity.

Time Table

13:10 **Introduction** (Kazuo Okanoya)

13:20 **Evolution of brain pathways for vocal learning and spoken language**

Erich Jarvis, Duke University and Howard Hughes Medical Institute

14:10 **A Monkey model system for early speech development**

Daniel Takahashi, Princeton University

15:00 Break

15:10 **A predisposition of vocal learning ability in hybrid songbirds**

Kazuhiro Wada & Azusa Sawai, Hokkaido University

15:30 **A review of sound production and developments in cetaceans**

Tomonari Akamatsu, National Research Institute of Fisheries Science

15:50 **Vocalization in the horseshoe bat: Echolocation or Communication?**

Kohta Kobayashi, Doshisha University

16:10 **Possible functions other than vocal behavior of the vocal learning system in birds**

Yoshimasa Seki, Aichi University

16:30 **Source of vocal variation in birds and humans**

Kazuo Okanoya & Yulri Nonaka, The University of Tokyo

16:50 **Comments** (Atsushi Iriki)

17:00 **Discussion** (Kazuo Okanoya)

17:30 **Conclusion**