

Cell Polarity 2007

International Symposium on Cell Polarity System and Future Medicine – *Revealing the Mechanism of Cell Morphogenesis for Future Medicine* –

Shonan Village Center • Hayama-machi, Kanagawa, JAPAN • December 9 - 10, 2007



[\(http://www-user.yokohama-cu.ac.jp/~coe21/sympo/\)](http://www-user.yokohama-cu.ac.jp/~coe21/sympo/)

A satellite symposium of BMB2007 (Biochemistry and Molecular Biology),
the 30th annual meeting of the Molecular Biology Society of Japan and
the 80th annual meeting of the Japanese Biochemical Society

Supported by Yokohama City University 21st Century COE Program*

*21st Century COE Program is a Targeted Support by MEXT (Ministry of Education, Culture, Sports, Science and Technology) of JAPAN, for Creating World-standard Research and Education Bases (Centers of Excellence)

**Supported by the Molecular Biology Society of Japan and
the Japanese Biochemical Society**

Sunday, December 9

- 13:00 – 13:10 **Opening remarks**
Shigeo Ohno (Yokohama City University, Japan)
- 13:10 – 14:00 **Special lecture**
Kenneth J. Kemphues (Cornell University, USA)
“Establishing polarity in the *C. elegans* embryo”
- 14:00 – 14:10 **Coffee break**
- 14:10 – 15:55 **Session 1 (Cell polarity in tissue/organ development)**
Daniel St. Johnston (University of Cambridge, UK)
“Polarizing the *Drosophila* oocyte”
Tony J.C. Harris (University of Toronto, Canada)
“Regulating epithelial polarity: Interplay between cortical and cytoskeletal cues”
Ulrich Tepass (University of Toronto, Canada)
“Fly genetics and the mechanisms of epithelial cell polarization”
- 15:55 – 16:15 **Coffee break**
- 16:15 – 17:30 **Tomonori Hirose** (Yokohama City University, Japan)
“Defective cell polarity in kidney podocytes causes severe glomerular disease”
Sarah M. Russell (Peter MacCallum Cancer Center, Australia)
“How cell shape regulates T cell fate determination”
Yoshio Goshima (Yokohama City University, Japan)
“The establishment of neural cell polarity: A critical aspect of neural network formation”
- 17:30 – 17:50 **Coffee break**
- 17:50 – 19:25 **Session 2 (Cancer)**
Masanori Hatakeyama (Hokkaido University, Japan)
“Disruption of epithelial cell polarity by the *Helicobacter pylori* virulence factor CagA”
Kazunori Akimoto (Yokohama City University, Japan)
“The role of aPKC λ in breast cancer”
Kaoru Miyazaki (Yokohama City University, Japan)
“Loss of epithelial cell polarity in tumor invasion”
Yoshinobu Kubota (Yokohama City University, Japan)
“Molecular targets of hormone refractory prostate cancer”
- 19:25 – 20:55 **Banquet**
- 20:55 – 22:30 **Poster session**

Breakfast

- 8:30 – 10:35 **Session 3 (Stem cells and asymmetric cell division)**
Fumio Matsuzaki (RIKEN CDB, Japan)
“Coupling of mitotic spindle orientation with cell polarity in neural stem cells”
Weimin Zhong (Yale University, USA)
“Asymmetric cell division and stem-cell homeostasis”
Magdalena Götz (GSF Institute of Stem Cell Research, Germany)
“Polarity cues in glial cells - important roles in radial glia, stem cells and reactive astrocytes”
Hideki Taniguchi (Yokohama City University, Japan)
“Analysis of asymmetric cell division of pancreatic stem cells using time-lapse cell tracing system”
- 10:35 – 12:00 **Poster session**
- 12:00 – 13:00 **Lunch**
- 13:00 – 14:45 **Session 4 (Signaling pathway regulating cell polarity)**
Ben Margolis (University of Michigan, USA)
“Crumbs in apical membrane and cilia formation”
Yoshimi Takai (Osaka University, Japan)
“Role and mode of action of nectin in cell polarization”
John G. Collard (The Netherlands Cancer Institute, Netherlands)
“The Par-Tiam1-Rac complex and cell polarity”
- 14:45 – 15:05 **Coffee break**
- 15:05 – 17:10 **Atsushi Suzuki** (Yokohama City University, Japan)
“A novel regulatory pathway by which an intracellular polarity protein organizes extracellular matrix organization”
Klaus Ebnet (University of Münster, Germany)
“Junctional adhesion molecule-A: Tight junction formation, signaling, and cell polarity”
Ian G. Macara (University of Virginia, USA)
“Polarity in cell culture and mammary morphogenesis - context-dependent functions of Par3”
Keith Mostov (UCSF, USA)
“Morphogenesis of multicellular epithelial structures”
- 17:10 – 17:20 **Closing remarks**
Shigeo Ohno (Yokohama City University)
- 17:30 **Depart**

Registration & Poster Presentation

Registration to the meeting is free of charge, but advance registration is required as the attendance will be limited to approximately 150, owing to the size of the venue. Applicants are encouraged to submit an abstract for the poster session. The deadline for meeting registration and abstract submission is October 12, 2007.

Registration

- To participate in the meeting, please download the registration form from our web site (<http://www-user.yokohama-cu.ac.jp/~coe/sympo/>), fill in all required information and send an e-mail with the title "Registration for 21COE Cell Polarity 2007" with the completed form as an attachment to: coe21sec@yokohama-cu.ac.jp.
- The organizers of the meeting encourage registrants to submit abstracts for poster presentations. To submit the abstract, please fill the registration form with your abstract including the (1) title, (2) names of authors, (3) institutions, and (4) abstract body, and then send an e-mail in the same way as indicated above.
- Banquet will be held on December 9 and the banquet fee is 1,700 yen. Please let us know of your attendance by filling in the application form.

Transportation

By TRAIN

From Tokyo

Via the JR Yokosuka Line or Shonan-Shinjuku Line. Alight at Zushi Station (approx. 60 min from Tokyo or Shinjuku stations).

Via the Keihin Kyuko (Keikeyu) Line. Alight at Shin-Zushi Station or Shioiri Station (approx 50 min from Shinagawa Station).

From JR Zushi Station or Keikeyu Shin-Zushi Station or Shioiri Station, take Keikeyu Bus No. 16 for Shonan Village. Alight at Shonan Kokusaimura Center Mae (approx 30 min)

From Narita Airport

Take the JR Sobu-Yokosuka Line Rapid Train ("Airport Narita"). Alight at Zushi Station (approx 2 h 30 min from Narita Airport).

Via the JR Narita Express. Switch to the JR Yokosuka Line at Yokohama Station. Alight at Zushi Station (approx 2 h from Narita Airport).

From JR Zushi Station, take Keikeyu Bus No. 16 for Shonan Village. Alight at Shonan Kokusaimura Center Mae (approx 30 min).

From Haneda Airport

Via the Keiku Haneda Airport Line. At Keikeyu Haneda Station, switch to a train heading for Yokohama. Alight at Shin-Zushi Station or Shioiri Station (approx. 60 min from Haneda Airport).

From Keikeyu Shin-Zushi Station or Shioiri Station, take Keikeyu Bus No. 16 for Shonan Village. Alight at Shonan Kokusaimura Center Mae (approx. 30 min).

From Shin-Yokohama

Via the Keiku Haneda Airport Line. At Keikeyu Haneda Station, switch to a train heading for Yokohama. Alight at Shin-Zushi Station or Shioiri Station (approx. 60 min from Haneda Airport).

From Keikeyu Shin-Zushi Station or Shioiri Station, take Keikeyu Bus No. 16 for Shonan Village. Alight at Shonan Kokusaimura Center Mae (approx. 30 min).

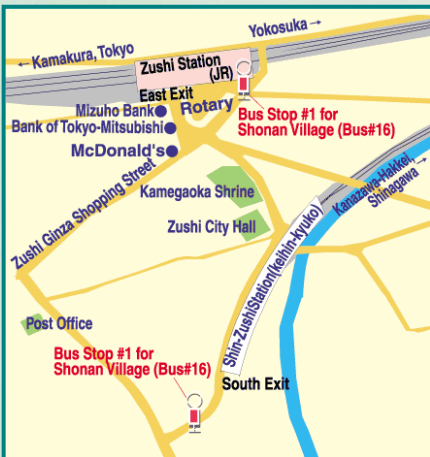
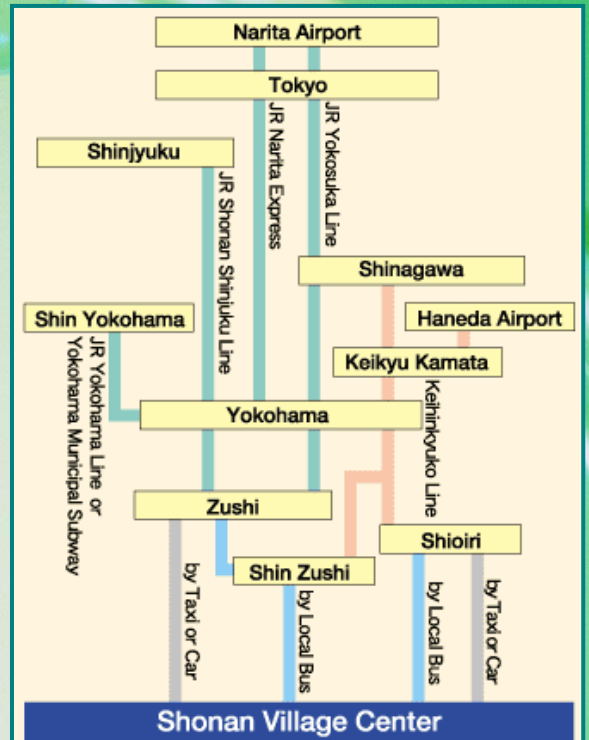
By BUS

From either JR Zushi Station or Keikeyu Shin-Zushi Station, take bus No. 16 for Shonan Village; this bus leaves from stop number 1 at both stations (approx. 30 min).

From Keikeyu Shioiri Station, take bus number 16 for Shonan Village, which leaves from stop number 2 (approx. 34 min).

The bus timetable can be accessed at

http://www.shonan-village.co.jp/english/bus.timetable_E.html.

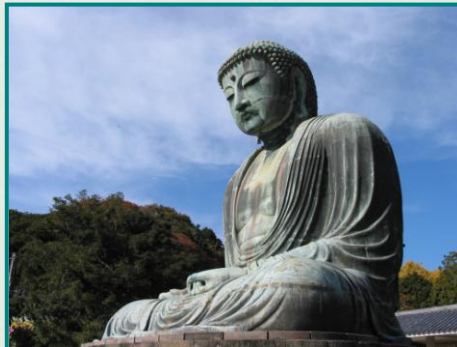
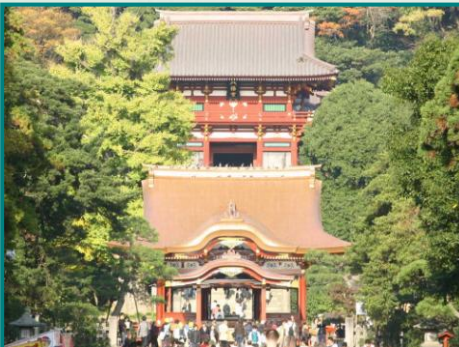


About Yokohama/Kamakura

The city of Yokohama is the second largest city in Japan. It is located to the South of Tokyo and plays Japan's gateway to the rest of the world. The city's port has historically played an important role in opening Japan up to international influence and the city retains a cosmopolitan and sophisticated air to this day. More information regarding Yokohama is available at <http://www.welcome.city.yokohama.jp/eng/tourism/>.



Kamakura is a neighboring city of Yokohama and is located approximately 50 km South-South-West of Tokyo. From the 12th through the 14th century the Minamoto shoguns ruled Japan from here under what is known as the first Shogunate government, Kamakura Shogunate. Kamakura is now mainly popular for its temples, shrines, and beaches. More information on Kamakura can be accessed at <http://www.kamakuratoday.com/e/>.



Contact

Yokohama City University 21st Century COE Program
Yokohama City University, School of Medicine
3-9 Fuku-ura, Kanazawa-ku, Yokohama 236-0004, JAPAN
Phone: +81-45-787-2598, Fax: +81-45-785-4140
e-mail: coe21sec@yokohama-cu.ac.jp
Home page (Japanese): <http://www-user.yokohama-cu.ac.jp/~coe21/>

Shonan Village Center (<http://www.shonan-village.co.jp/english/>)
1560-39 Kamiyamaguchi, Hayama-machi, Miura-gun, Kanagawa 240-0198, JAPAN
Reservations: Phone: +81-46-855-1800, Fax: +81-46-855-1816
Front Desk: Phone: +81-46-855-1810, Fax: +81-46-855-1816

Organizing Committee

- | | | | | |
|--------------------------|---|--------------------|----------------------|-----------------------|
| <u>Honorary Chairman</u> | Bruce Stronach, President of Yokohama City University | | | |
| <u>Chairman</u> | Shigeo Ohno | | | |
| <u>Members</u> | Kazuhiro Ogata | Yoshio Goshima | Yoshihiro Ishikawa | Satoshi Umemura |
| | Yoshinobu Kubota | Kenji Okuda | Yoshifumi Nishimura | Yoshihide Hayashizaki |
| | Kaoru Miyazaki | Hiroshi Shimada | Yoshiaki Ishigatsubo | Nobuhisa Mizuki |
| | Hideki Taniguchi | Yoshiyuki Sakaki | Hisashi Hirano | Yasuo Terauchi |
| | Yoshiyuki Kuroiwa | Naomichi Matsumoto | Takuya Takahashi | |

General Secretary Office Members

- | | | | | |
|-----------------|----------------|------------------|----------------|------------------|
| Syu-ichi Hirai | Kohtarō Takei | Hitoshi Ishiguro | Atsushi Suzuki | Kazunori Akimoto |
| Tomonori Hirose | Akio Yamashita | Naoko Iida | Yuko Eguch | |