International Workshop on Mathematical Analysis of Chemotaxis (iWMAC)

Monday, February 22 – Friday, February 26, 2016
Room 831 in Building 8
Tokyo University of Science

Program

Monday, February 22 Chair person (except Student Exchange): Noriaki Yoshino

11:00-11:30	**Opening**
11:30-12:30	**Student Exchange** "Basic results of the Keller–Segel systems"
	Lunch
14:30-15:15	**Tomasz Cieslak** (IMPAN) Global regular solutions of the 2d Euler–Keller–Segel system
15:30-16:15	**Etsushi Nakaguchi** (Tokyo Medical and Dental University) L^p-estimates and regularity for global solutions to an n-dimensional parabolic-parabolic chemotaxis system with weak degradation
17:00-17:30	**Masanari Miura** (Kyushu University) On the Hölder regularity and uniqueness theorem on weak solutions to Keller–Segel systems of degenerate and singular types
17:40-18:10	**Free discussion**

Tuesday, February 23 Chair person (except Student Exchange): Masanari Miura

10:30-12:30	**Student Exchange** "What is the essential difficulty in the study of chemotaxis systems?"
	Lunch
14:30-15:15	**Yoshie Sugiyama** (Kyushu University) Time global existence and finite time blow-up criterion for solutions to the Keller–Segel system coupled with Navier–Stokes fluid
15:30-16:15	**Christian Stinner** (Ludwig-Maximilians-University of Munich) Finite time versus infinite time blowup for a fully parabolic Keller–Segel system
17:00-17:30	**Noriaki Yoshino** (Tokyo University of Science) A nonlinear m-accretive operator theoretic approach to approximate problems for a chemotaxis system
17:40-18:10	**Free discussion**

Wednesday, February 24 Chair person: Masaaki Mizukami

9:30-16:15	**Excursion (gather at 9:30 at Room 831)** *Ryogoku* and *Asakusa*
17:00-17:30	**Johannes Lankeit** (Universität Paderborn) Long-term behaviour in a chemotaxis-fluid system with logistic source
17:40-18:10	**Kentarou Fujie** (Tokyo University of Science) Local-in-space estimates for chemotaxis systems and their applications
18:30-20:30	**Dinner** at Japanese restaurant *Tsumiki*

Thursday, February 25 Chair person (except Student Exchange): Kentarou Fujie

10:30-12:30	**Student Exchange** "Recent study in chemotaxis-fluid systems"
	Lunch
14:30-15:15	**Akio Ito** Tumor invasion model of Chaplain–Anderson type with quasi-variational structure
15:30-16:15	**Yulan Wang** (Xihua University) Global existence and Boundedness of some chemotaxis-fluid systems
17:00-17:30	**Marcel Freitag** (Universität Paderborn) Finite speed of propagation in a fourth-order degenerate parabolic equation modeling Bose–Einstein Condensation
17:40-18:10	**Tobias Black** (Universität Paderborn) Sublinear signal production in a two-dimensional Keller–Segel–Stokes system

Friday, February 26 Chair person (except Student Exchange): Noriaki Yoshino

10:30-12:30	**Student Exchange** "Open problems and related works in the field of chemotaxis"
	Lunch
14:30-15:15	**Youshan Tao** (Donghua University) On a chemotaxis-fluid system modeling biomixing
15:30-16:15	**Xinru Cao** (Renmin University of China) Applications of Maximal Sobolev regularity in chemotaxis
17:00-17:30	**Masaaki Mizukami** (Tokyo University of Science) Global existence and asymptotic stability of solutions to a two-species chemotaxis system with logistic source
17:40-	**Closing**