

Poster Session

1. **Detection of Life-threatening Arrhythmias using a Multiple Regression Model**
Makoto Abe, Telma Keiko Sugai, Makoto Yoshizawa, Kazuo Shimizu, Moe Goto, Masashi Inagaki, Masaru Sugimachi, and Kenji Sunagawa
2. **Collective Diffusion of Red Blood Cells from High Concentration to Low**
Cheng-Hsi Chuang, Takuji Ishikawa, Hironori Ueno, Keiko Numayama, Yohsuke Imai, and Takami Yamaguchi
3. **Quantifying Characteristics of Red Blood Cell at Dense Cellular Flow**
Davod Alizadehrad, Yohsuke Imai, Takuji Ishikawa, and Takami Yamaguchi
4. **iCART: A Car Transportation System**
Mitsuru Endo, Kenji Hirose, Kazuhiro Kosuge, Yasuhisa Hirata, Koki Suzuki, and Takashi Kanbayashi
5. **Hydrodynamic Entrapment of Ciliates at the Interface Fluid-air**
Jonathan Ferracci, Takuji Ishikawa, Hironori Ueno, Keiko Numayama, Yohsuke Imai, and Takami Yamaguchi
6. **Selective Detection of Tau Neuropathology with Novel Fluorescent Probes**
Ryuichi Harada, Nobuyuki Okamura, Shozo Furumoto, Takeo Yoshikawa, Yukitsuka Kudo, and Kazuhiko Yanai
7. **Role of Paxillin in the Morphological Changes and Redistribution of Focal Adhesions in Endothelial Cells Exposed to Cyclic Stretch**
Wenjing Huang, Naoya Sakamoto, Ryotaro Miyazawa, and Masaaki Sato
8. **Distribution of Traction force in Smooth Muscle Response to Myosin Light Chain Phosphorylation**
Kazushi Ito and Masaaki Sato
9. **Decentralized Coordinated Control of Multiple Mobile Robots for a Car Transportation System**
Koshi Kashiwazaki, Kazuhiro Kosuge, Yasuhisa Hirata, and Yusuke Sugahara
10. **High-Endurance SPRAM for Fully Implantable Retinal Prosthesis**
Hisashi Kino and Tetsu Tanaka
11. **A Novel Assembly Task Partner Robot Based on Statistic Approach**
Jun Kinugawa, Yasufumi Tanaka, Yuta Kawaai, Yusuke Sugahara, and Kazuhiro Kosuge
12. **Proteasomal Dysfunction and Muscle Regeneration**
Yasuo Kitajima, Naoki Suzuki, Masashi Aoki, and Ryoichi Nagatomi
13. **The Characteristic of Long Si Neural Probe with Simulation and Experiment**
Sanghoon Lee, Soichiro Kanno, Yoshiho Yukita, and Tetsu Tanaka
14. **Association between Cardio Ankle Vascular Index and Metabolic Syndrome in Middle-aged and Elderly Subjects**
Hongjian Liu, Xiumin Zhang, and Tomoyuki Yambe
15. **The Regulatory Mechanism of BRCA1 and BARD1 after DNA Damage**
Emiko Maseki, Manabu Shiono, Ayako Matsuzawa, Yumiko Furukawa, Shun Shibata, Hironori Mochiduki, Kei Kato, and Natsuko Chiba
16. **A Novel BARD1-interacting Protein Regulates Centrosome**
Ayako Matsuzawa, Shun Shibata, Hironori Mochiduki, Emiko Maseki, Yumiko Furukawa, Kei Kato, Manabu Shiono, and Natsuko Chiba
17. **CT Imaging of Tumor by Silica-Coated Au Nanoparticle**
Tomohiko Nakagawa, Kohsuke Gonda, Liman Cong, Takashi Kamei, Yoshio Kobayashi, Hiromitsu Inose, Ryoko Nagasu, and Noriaki Ohuchi
18. **The Expression and Functions of Histamine H₃ Receptor in Pancreatic β -cells**
Tadaho Nakamura, Takeo Yoshikawa, and Kazuhiko Yanai

19. **Change of the HER3 Expression Pattern between Primary Breast Cancer and Corresponding Lymph Node Metastases**
Nobuchika Niizuma, Kohsuke Gonda, Hiroshi Tada, Noriko Nemoto, Takashi Kamei, and Noriaki Ohuchi
20. **Effect of Constitutive Law on the Lateral Migration of a Capsule Near a Wall**
Stephanie Nix, Yohsuke Imai, Daiki Matsunaga, Takuji Ishikawa, and Takami Yamaguchi
21. **Study on an Evaluation Method for Contact Stimulus during Walking Movements**
Takuya Nomata, Takeshi Okuyama, and Mami Tanaka
22. **Development of SiC Optical Waveguide on Si Neural Probe for Multiple Optical Stimulations of Neurons**
Akihiro Noriki and Tetsu Tanaka
23. **Fabrication Process Development in Three Dimensional Retinal Prosthesis Chip for Subretinal Stimulation**
Yuki Ohara, Yoshitomo Watanabe, and Tetsu Tanaka
24. **Rheology of a Dilute Suspension of Red Blood Cells in Simple Shear Flow**
Toshihiro Omori, Takuji Ishikawa, Yohsuke Imai, and Takami Yamaguchi
25. **Novel Concept of Therapeutic Array Transducer Element using Coresonance between Hemispherical Piezoceramic Shell and Water Sphere**
Kenji Otsu, Shin Yoshizawa, and Shin-ichiro Umemura
26. **Time Response Properties on Deformation Velocity for a Soft Curvature Sensor**
Manabu Otsuki, Takeshi Okuyama, and Mami Tanaka
27. **ERK Affects Assembly of Actin Filaments in Macrophages under Cyclic Stretch and Hypoxic Conditions**
Koki Oya, Naoya Sakamoto, and Masaaki Sato
28. **Micro-Tensile Tester for Probing Biomechanical Properties of Isolated Cytoskeletal Bundles**
Tsubasa S. Matsui, Shinji Deguchi, and Masaaki Sato
29. **Motion Control of Passive Mobile Robot Consisting of Multiple Wheels with Servo Brakes**
Masao Saida, Yasuhisa Hirata, and Kazuhiro Kosuge
30. **Relationship of Histological Change to Acoustic Properties of Thermally Denaturated Biological Tissues**
Takashi Shishitani, Shin Yoshizawa, and Shin-ichiro Umemura
31. **To Excite the Inhibition of Response Initiation: Repetitive Transcranial Magnetic Stimulation to Dorsal Premotor Cortex**
Eizaburo Suzuki, Yutaka Oouchida, and Shin-ichi Izumi
32. **Motion Support during Swing Phase using Cooperative Walking Support System**
Shinji Suzuki, Yasuhisa Hirata, and Kazuhiro Kosuge
33. **Age-related Differences in Small-world Functional Brain Networks in Healthy Children**
Kai Wu, Yasuyuki Taki, Kazunori Sato, Hiroshi Hashizume, Yuko Sassa, Hikaru Takeuchi, Ryuta Kawashima, and Hiroshi Fukuda
34. **Estimation of Positional Relationships between a Vehicle and Two Robots Lifting Drive Wheels in Transportation**
Naoaki Yonezawa, Kazuhiro Kosuge, and Yusuke Sugahara
35. **An Electrode Film of Enzyme/Mediator/Nanotube Ordered Ensemble for High-Efficiency Glucose Oxidation**
Syuhei Yoshino, Takeo Miyake, Keigo Haneda, Takuya Ofuji, Takeo Yamada, Kenji Hata, and Matsuhiko Nishizawa