

第59回日本生物物理学会年会 プログラム・予稿 訂正・変更一覧
List of Corrections and Changes for Program and Proceedings

頁 Page	演題番号 Presentation No.	変更前・誤 Before / Wrong	変更後・正 After / Correct
S8		Ch02 BPセミナー 1 DKSHジャパン Ch03 キャリア支援説明会	Ch02 キャリア支援説明会 Ch03 BPセミナー 1 DKSHジャパン
S24		Ch02 BP Seminar 1 DKSH Japan Ch03 Career Support Events	Ch02 Career Support Events Ch03 BP Seminar 1 DKSH Japan
S37		演 者：小杉 洋 (分子研)	演 者：小杉 貴洋 (分子研)
S80	1-07-1442	-	取り消し Cancelled
S80	1-07-1454	○畑崎 優一郎 Yuichiro Hatasaki	○渡邊 亮 Ryo Watanabe
S88	1-13-1454	-	取り消し Cancelled
S88	1-14-1330	-	取り消し Cancelled
S88	1-14-1406	-	取り消し Cancelled
S98	2-03-1315	-	取り消し Cancelled
S102	2-04-1439	-	取り消し Cancelled
S135	2-15-1339*	Le Zhai (Graduate School of Frontier Bioscience, Osaka University)	Le Zhai ^{1,2} , Ryosuke Nakashima ² , Yoshimasa Ike ^{2,3} , Tomoki Matsuda ^{1,2} , Takeharu Nagai ^{1,2,3} (¹ Graduate School of Frontier Bioscience, Osaka University, Japan, ² SANKEN (The Institute of Scientific and Industrial Research) , Osaka University, Japan, ³ Department of Biotechnology, Graduate School of Engineering, Osaka University, Japan)
S138	2-16-1315*	Shinya Sakai (Graduate School of Frontier Bioscience, Osaka University)	Shinya Sakai ¹ , Tomoki Matsuda ² , Takeharu Nagai ^{1,2} (¹ Graduate School of Frontier Bioscience, Osaka University, Japan, ² SANKEN (The Institute of Scientific and Industrial Research) , Osaka University, Japan)
S139	2-16-1415	○内田 匠 (東大院・理学系研究科) Takumi Uchida (Grad. Sch. Sci., The Univ. of Tokyo)	○内田 匠, 山崎 洋人 , 上村 想太郎 (東大院・理学系研究科) Takumi Uchida, Hirohito Yamazaki , Sotaro Uemura (Grad. Sch. Sci., The Univ. of Tokyo)
S144	3-03-1342	-	取り消し Cancelled
S149	3-07-1330	-	取り消し Cancelled
S153	3-10-1442	Thermo-responsive deformable liposomes, towards micron scale bio-hybrid robotics.	Magneto-responsive multi-compartment liposomes, towards biomolecule-hybrid robotics.

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S348	3-10-1442	<p>Biomimetic materials replicate naturally occurring functionalities using synthetic materials, however, to date most reports on have been structural and static in nature. One important aspect of biological matter is the ability to move or respond dynamically to environmental stimuli. Here we report attempts at producing environmentally triggered, dynamic and reversible physical responses in multicellular liposomes through use of synthetic thermo-responsive ionic copolymers, able to effect changes in osmotic pressure and thereby controlling water flow across the lipid membrane. The ability to produce triggered dynamic changes in biomaterials is an important step towards smart responsive and programable materials which are also compatible with physiological conditions.</p>	<p>Liposomes produced by the self-assembly of molecular phospholipids, have often been studied for their ability to encapsulate aqueous liquids, an attractive feature in applications such as drug delivery thought typically these are passive, non-responsive capsules and so offer no control in their delivery. Here we present the facile production of centimeter scale, hemifusion-liposome based multi-cellular bodies, built with bio-compatible chemicals which are capable of efficiently encapsulating near milliliter volumes of aqueous liquid assembled as both homogeneous and heterogeneous compartments. Incorporating magnetic nanoparticles enables the active motion and actuation of the cellular bodies allowing the directed transport and potential for smart targeted delivery.</p>