## Federation of the Korean Societies for Biomolecular Sciences (FKSBS)

## 연국생체 문자

Time Jan. 09~11, 2020 Venue GIST 오룡관

		)ay 1 : Jan	. 09, Thursday
	10:00~13:00	Registration	
	13:00~13:10	Opening Remarks	<b>박철승</b> (GIST) 한국생물물리학회 회장
Plenary Lectur	'e 1	Speaker: 25	병하(KAIST) <b>Chair :김명희</b> (한국생명공학연구원) <b>Location :</b> 303호
Plenary Lecture 1	13:10~13:55	오병하(KAIST)	Computational protein design and its application
GIST-Created	New Horizon / (	Computational Appro	aches for New Molecular Findings(Parallel, 14:00-15:40)
GIST-Created	New Horizon		Organizer: 이광록(GIST) Chair: 이광록(GIST) Location: 303호
	14:00~14:25	<b>김정욱</b> (GIST)	Structural basis for the activation and the activity of phosphatidylserine decarboxylase in the biosynthesis of phospholipids
Symposium I (Parallel) 14:00–15:40	14:25~14:50	남호정(GIST)	Al-powered drug discovery and development
	14:50~15:15	진미선(GIST)	The structural basis of the low catalytic activities of the two minor β-carbonic anhydrases of the filamentous fungus Aspergillus fumigatus
	15:15~15:40	이광록(GIST)	Chemical friction along the minor groove of DNA facilitates enzymatic translocation of λ exonuclease via electrostatic ratchet
Computational A	Approaches for Nev	w Molecular Findings	Organizer : 유우경(DGIST) Chair : 유우경(DGIST) Location : 101호
		ESurv: a user-friendly web server for integrative survival analysis	
<b>Symposium II</b> (Parallel)	14:25~14:50	최정모(KAIST)	The stickers and spacers framework for describing phase behavior of multivalent intrinsically disordered proteins
14:00—15:40	14:50~15:15	천무경(KBRI)	A practical application of generative adversarial networks for RNA-seq analysis to predict the molecular progress of Alzheimer's disease
	15:15~15:40	<b>최 선</b> (이화여대)	Comprehensive mechanistic studies for the structural and functional elucidation of a tetraspanin arginine sensor
한국생물물리학	회, 구조생물학회 총	<b>호 </b> (15:40—16:40)	Coffee Break and Poster Session (15:40–16:50) Location: Lobby Location: 한국생물물리학회(101호), 구조생물학회(201호)
New Horiz	zons in Membrane	Signaling and Traffick	king / Ionic Transport Mechanism(Parallel, 16:50–18:30)
New Horizons i	in Membrane Signa	aling and Trafficking	Organizer : 이형호(서울대) Chair : 엄수현(GIST) Location : 303호
	16:50~17:15	<b>최희정</b> (서울대)	Biophysical and functional characterization of Frizzled4-mediated Norrin signaling
Symposium III (Parallel) 16:50-18:30	17:15~17:40	<b>임영준</b> (전남대)	Structural Mechanism of Intracellular Sterol Distribution by Lipid Transfer Proteins
	17:40~18:05	<b>김한성</b> (부경대)	A Catalytic Trisulfide in Human Sulfide Quinone Oxidoreductase Catalyzes Coenzyme A Persulfide Synthesis and Inhibits Butyrate Oxidation
	18:05~18:30	<b>정가영</b> (성균관대)	Time-resolved Conformational Analysis during GPCR-Gs Coupling
Ionic Trans	port Mechanism	S Organi	izer : 강동묵(성균관대) Chair : 강동묵(성균관대) Location : 101호
	16:50~17:15	임현호(KBRI)	Coupled ion-transport mechanism in a CLC-type CI-/H+ antiporter
Symposium IV (Parallel)	17:15~17:40	이병철(KBRI)	Ion and lipid transport via TMEM16 scramblases
16:50—18:30	17:40~18:05	<b>강경진</b> (성 <del>균</del> 관대)	Analysis of Phototoxin Taste Closely Correlates Nucleophilicity to Type-I Phototoxicity

Reception & Poster Session(18:30–20:00) **Location**: Lobby

홍규상(KIST)

대한화학회 생명화학분과, 한국결정학회, 한국구조생물학회, 한국단백질학회, 한국생물물리학회

Cytoskeleton dependent activation of Tentonin 3/TMEM150C,

a novel mechanosensitive channel

한국생물물리학회

18:05~18:30

## Federation of the Korean Societies for Biomolecular Sciences (FKSBS)

	OW. Approx		n. 10, Friday  Piomologular Engineering (Parallel, 00:00–10:40)
			Biomolecular Engineering(Parallel, 09:00-10:40)
New Approac	hes in Structural E	아이Ogy Org 우재성(고려대)	anizer : 최희정(서울대) Chair : 이원태(연세대) Location : 303호
Symposium V (Parallel) 9:00-10:40	09:00~09:25	구세경(1/더네) 류제경(TU Delft)	Cryo-EM Structure of Human Cx31,3/GJC3 Hemichannel  AFM imaging of open and collapsed states of yeast condensin
	09:25~09:50	박석열(포항가속기)	suggest a scrunching model for DNA loop extrusion  BL11C: a High-flux Micro-MX beamline for micron-sized protein
	09:50~10:15		crystals at PAL  Time-resolved pH-induced protein dynamics using serial
Diameda audaw	10:15~10:40	김경현(고려대)	femtosecond crystallography
Biomolecular			ganizer: 이현수(서강대) Chair: 이현수(서강대) Location: 101호
Symposium VI (Parallel) 9:00-10:40	09:00~09:25	정용원(KAIST)	Supramolecular Biochemistry: engineering artificial protein assemblies
	09:25~09:50	조규봉(서강대)	Visualization of A/T Specific Sequence on a Large DNA Molecule  Development of Recombinant Secondary Antibody Mimics as
	09:50~10:15	강세병(UNIST)	Signal Amplifiers in Immunoassays
	10:15~10:40	안대로(KIST)	A library—based approach to develop tumor—targeted drug carriers
		Coffee Break(10:40	
Plenary Lectur	e 2 Spe		PDBj, Osaka Univ) Chair: 김경규(성균관대) Location: 다산홀
Plenary Lecture 2	11:00~11:50	Dr. Genji Kurisu (PDBj head; Osaka Univ)	Structural Basis for the Ferredoxin-dependent Photosynthetic Electron Transfer
Luncheon Sen	<b>ninar 1 : PDBj</b> (12:0		Chair: Dr. Genzi Kurisu(PDBj, Osaka Univ) Location: 303호
Luncheon 1-1	12:00~12:25	Dr. Atsushi Nakagawa (PDBj, Osaka Univ)	OneDep: Unified System for Deposition, Biocuration, and Validation of Macromolecular Structures
Luncheon 1–2	12:25~12:50	Dr. Nobutoshi Ito (PDBj, Tokyo Medical and Dental Univ	Mandatory submission of PDBx/mmClF format files for crystallographic depositions to the Protein Data Bank (PDB)
Luncheon Sen	ninar 2 : (주)토모쿠	<b>7旦</b> (12:00—12:50)	Location: 101호
Luncheon 2	12:00~12:50	이수민(토모큐브)	Holotomography techniques for non-invasive label-free 3D imaging of live cells and materials
Cutting-Edg	ge Technologies fo	or Next-Generation Bio	medicine / Young Scientist Session(Parallel, 13:00-15:00)
Cutting-Edge Te	echnologies for Nex	ct-Generation Biomedicir	ne Organizer : 정상택(고려대) Chair : 정상택(고려대) Location : 303호
	13:00~13:25	유동원(서울대)	Nanomaterials for Bioimaging and Therapeutics
\	13:25~13:50	서지원(GIST)	Engineering natural peptides for discovery of novel anti-infectives
Symposium VII (Parallel) 13:00-15:05	13:50~14:15	예경무(DGIST)	Translational application of infectious libraries of human antibodies
	14:15~14:40	<b>정우재</b> (성균관대)	Multivalent Sialyl Ligands and Their Use in Influenza A Virus Entry Inhibitors
	14:40~15:05	김찬혁(KAIST)	Towards next-generation T cell therapy for Cancer
Young Scientist	Session	Organizer	: 학술위원회 Chair : 최명환(성균관대), 강진영(KAIST) Location : 101호
	13:00~13:20	<b>박성준</b> (KAIST)	Special Talk: Multifunctional Neural Interfaces Technologies
	13:20~13:33	유다슬이(KAIST)	Optogenetic activation of intracellular antibodies for direct modulation of endogenous proteins
Symposium VIII (Parallel) 13:00–15:05	13:33~13:46	김지원(Postech)	Application of anti-helix antibodies in protein structure determination
	13:46~13:59	이수빈(Postech)	A Small-Molecule Identified via Forward Chemical Genetics Selectively Kills Cancer Cells
	13:59~14:12	허수경(이화여대)	The Effects of Tumor Suppressor INPP4B Oxidation on Actin Polymerization in Glioma Cells.
	14:12~14:25	<b>김희령</b> (성균관대)	Conformational Analysis of Gi/o α Subunits in GPCR Coupling
•	14:25~14:38	강민희(고려대)	Solution Structure of the Nucleotide hydrolase BlsM: Importance of its Substrate Specificity
	14:38~14:51	민경진(서울대)	Structural and functional characterization of a peptidoglycan reshaping peptidase in intestinal pathogens
	14:51~15:05	홍승곤(KBIO)	Structural investigation of Micromonospora echinospora GenB1; relationship between productivity and substrate preference
		Coffee Break(15:05	955 1 / 3 * 5/ 5
Plenary Lectur	e 3	Speaker : 장양	명태(Postech) Chair: 정상전 분과장(성균관대) Location: 다산홀
Plenary Lecture 3	15:25~16:10	장영태(Postech)	Strategy for Cell Discrimination using Fluorescent Probe
	nologies on Protein	Science	Organizer : 김승중(KAIST) Chair : 김승중(KAIST) Location : 303호
	16:15~16:40	박지용(IBS)	Advanced MD Simulations that Quantify Target—Inhibitor Interactions
Symposium IX	16:40~17:05	기시아(IDO) 김진해(DGIST)	Case Studies of EGFR Kinase Inhibitors and Androgen Receptor Antagor The structural features of transthyretin in its aged aggregation—prone sta
(Parallel) 16:15–17:55	17:05~17:30	송은주(이화여대)	Phosphorylation of USP15 and USP4 Regulates Localization and
CC: 11-CI:-UI	17:30~17:55		Spliceosomal Deubiquitination Inhibitory Activity of Nucleotide—based Metabolites Against
Neuroscience a			Class C β-Lactamases  Organizer: 김성현(경희대) Chair: 김성현(경희대) Location: 101호
TACUI OSCIETICE &		<b>ストナリヒナ</b> /レ/ ^ L〇丁/	Expansion microscopy techniques and their applications to reveal
Symposium X (Parallel) 16:15–17:55	16:40~47:05	<b>장재범</b> (KAIST)	fine molecular details
	16:40~17:05	최명환(성균관대)	Comprehensive functional screening of taste sensation in vivo Anatomy and connectivity of the cerebellum revealed by
	17:05~17:55	김진섭(성균관대)	electron microscope images  Distinct property of presynaptic physiology between excitatory
	17:30~17:55	<b>김성현</b> (경희대)	and inhibitory neurons

Banquet (Speakers and Pls) Location : 꽃담(062-974-0001)

Closing Remarks

박철승(GIST) 한국생물물리학회 회장 + 나명수(UNIST) 한국결정학회 회장

주최 대한화학회 생명화학분과, 한국결정학회, 한국구조생물학회, 한국단백질학회, 한국생물물리학회

주관 한국생물물리학회

18:00~18:30