

The 89th Annual Meeting of the Japanese Biochemical Society
Presentation Topics

Classifications	Topics
00: Cellular Response	1) Membrane receptors and ion channels
	2) Extracellular signaling molecules (Bioactive substances, hormones, etc.)
	3) Biological interactions (Symbiotic and pathogenic microorganisms, insects, etc.)
	4) Autophagy
	5) Cell death (Apoptosis etc.)
	6) Stress response
	7) Environmental biology
	8) Classification 0 in general
01: Glycobiology	1) Glycoproteins
	2) Glycolipids
	3) Proteoglycans
	4) Lectins
	5) Carbohydrate-related enzymes
	6) Classification 1 in general
02: Lipid Biology	1) Lipid metabolome
	2) Sphingophospholipids
	3) Glycerophospholipids
	4) Bioactive lipids
	5) Steroids, cholesterol and lipoproteins
	6) Fatty acids, glycerides and neutral lipids
	7) Classification 2 in general
03: Proteins	1) Structural biology, prediction of function and drug design□
	2) Protein modification
	3) Protein folding, quality control and chaperone
	4) Proteolysis
	5) Classification 3 in general
04: Enzymes and Metabolism	1) Catalytic mechanism, regulatory mechanism and inhibitory mechanism
	2) Enzymes (Oxidoreductases and related enzymes)
	3) Enzymes (Metalloenzymes and heme enzymes)
	4) Enzymes (Hydrolytic enzymes)
	5) Coenzymes, vitamins and biofactors
	6) Metabolism and xenobiotic metabolism
	7) Classification 4 in general
05: Redox and Energy Conversion	1) ROS generation, oxidative stress and redox regulation
	2) Ion transport and bioenergetics
	3) Electron transport chain
	4) Classification 5 in general
06: Cell Structure and Function	1) Membrane transporter
	2) Adhesion, motility, extracellular matrix and cytoskeleton
	3) Structure, function and biogenesis of organelles
	4) Intracellular traffic systems (Vesicular transport etc.)
	5) Classification 6 in general
07: Signal Transduction	1) Nuclear receptors
	2) Protein kinases and phosphatases
	3) G proteins
	4) Intracellular signaling molecules
	5) Classification 7 in general
08: Cell Cycle, Development	1) Cell cycle, cell division and polarity
	2) Early development, Morphogenesis and growth control
	3) Stem cell and cell differentiation
	4) Classification 8 in general
09: Genetic Information and Expression	1) Structure and function of chromosome and nucleus
	2) DNA replication, recombination, mutation and repair
	3) Transcription and its regulation
	4) Chromatin and epigenetics
	5) RNA processing, transport, translation and degradation (including non-coding RNA)
	6) Classification 9 in general
10: Frontier Sciences and Technology	1) Ome research and analysis technology
	2) Single molecule biochemistry, single cell biochemistry, imaging and biosensor
	3) Systems biology
	4) Chronobiology, sleep, photoperiodism and rhythm
	5) Drug discovery, bioactive compounds and food science
	6) Evolution and biodiversity
	7) Genetic, nucleic acid, glycotecchnology and cell engineering
	8) Classification 10 in general
11: Biology of Diseases	1) Cancer
	2) Aging and life style-related diseases
	3) Endocrinological and metabolic diseases
	4) Hereditary diseases
	5) Diseases in general
	6) Molecular diagnosis, laboratory medicine, etc
	7) Classification 11 in general
12: Neuroscience	1) Development of neural networks
	2) Synaptic transmission and plasticity, receptors and channels and the sensory system
	3) Substance metabolism and signal transduction
	4) Behavior, cognition and biological rhythms
	5) Nervous and mental disorders
	6) Classification 12 in general
13: Immunity and Infection	1) Cellular immunology and immune regulation
	2) Host defense and infectious diseases
	3) Inflammation
	4) Immunopathy
	5) Classification 13 in general
14: Medical Inovation	1) Regenerative medicine (Stem Cells and iPS cells)
	2) Regenerative medicine (Tisseu engineering and matrix engineering)
	3) Biochemistry in neuronal degenerative diseases
	4) Biochemistry in chronic inflammation
	5) Chemical biology, screening, and drug development
	6) Nucleic acid-, protein- and antibody-engineering and drug development
	7) Information science and drug development
	58 Classification 14 in general
15: Plant Biology	1) Plant ome research
	2) Plant organelle, cell and organogenesis
	3) Environmental response and photosynthes
	4) Plant-pathogen interactions
	5) Plant intracellular signal reception and transduction
	6)Classification 15 in general