

Classification of General Sessions (Oral/Poster Presentations) with Code No.

Division	Sub-Division	Item	Code No.
Pharmaceutical Chemistry (A)	Organic Chemistry (01)	[Group A]	
		Total synthesis	0101
		Biosynthesis	0102
		Other synthetic studies	0103
		Chemical reactions	0104
		Reaction mechanism	0105
		Structure and physical property	0106
		Molecular recognition	0107
		Others	0108
		[Group B]	
		N-Heterocyclic compounds (monocyclic)	0111
		N-Heterocyclic compounds (polycyclic)	0112
		Other heterocyclic compounds	0113
		Amino acids, peptides	0114
		Carbohydrates	0115
		Nucleic acids	0116
		Antibiotics	0117
		Organometallic compounds and metal complexes	0118
		Heteroatom compounds (incl. organic phosphorus and sulfur compounds)	0119
		Other aromatic compounds	0120
		Other aliphatic compounds	0121
	Pharmacognosy and Natural Products Chemistry (02)	Cultivation, breeding	0201
		Tissue culture and cell culture	0202
		Genes, biosynthesis	0203
		Tissue morphology and classification	0204
		Market research	0205
		Resource research	0206
		Quality evaluation/qualitative and quantitative analysis	0207
		Pharmacology, clinical aspects	0208
		Fatty acids and related compounds	0209
		Carbohydrates	0210
		Glycosides	0211
		Aromatic natural products	0212
		Steroids	0213
		Terpenoids	0214
		Alkaloids and nitrogen-containing natural products	0215
		Chemical biology	0216
		Screening	0217
		Others	0218
	Medicinal Chemistry (03)	Chemical biology	0301
		Drug design	0302
		Synthetic compounds in drug discovery	0303
		Natural medicines and biological products	0304
		Pharmacologically active compounds (incl. metabolites)	0305
		Structure-activity relationship	0306
		Others	0307

Division	Sub-Division	Item	Code No.
Pharmaceutical Physics (B)	Physical Chemistry and Biophysics (04)	<u>Physical chemistry</u>	
		Functional polymers	0401
		Molecular assembly	0402
		Adsorption, interfacial phenomena, colloids, dispersion systems	0403
		Intermolecular interaction	0404
		Physical properties of pharmaceuticals (solids, solutions)	0405
		Reactivity and stability of pharmaceuticals	0406
		Photochemistry, plasma chemistry, laser chemistry, particle-beam chemistry	0407
		Structural chemistry, spectroscopy	0408
		Complexes	0409
		Electrochemistry	0410
		Others	0411
		<u>Biophysics</u>	
		Structure, physical property, and reactivity of biological materials	0421
		Biopolymers	0422
		Biological membrane and artificial model membrane	0423
		Biological higher-order function and its material basis	0424
		Physical measurement (incl. bioimaging)	0425
		Membrane transport	0426
		Structural biology	0427
		Others	0428
		<u>Informatics, in silico chemistry (computational chemistry)</u>	
		Molecular modeling, QSAR	0431
		Quantum chemical calculation, molecular mechanics, molecular dynamics	0432
		Database, data mining	0433
		Bioinformatics	0434
		Computer sciences	0435
		Others	0436
		<u>Pharmaceutical physical chemistry</u>	
		Pharmaceutical physical chemistry	0441
		Others	0451
	Analytical Chemistry (05)	Spectroscopic analysis	0501
		HPLC - packing materials, column	0502
		HPLC - derivatization, detection method	0503
		HPLC - others	0504
		LC-MS	0505
		GC-MS, CE-MS, MS	0506
		Other chromatography	0507
		Electrophoresis	0508
		Instrumental analysis	0509
		Biological analysis	0510
		Others	0511
	Radiochemistry (06)	Radioactivity measurement	0601
		Synthesis of labelled compounds and their metabolism	0602
		Radiopharmaceuticals	0603
		RIA	0604
		Biologically related trace elements	0605
		Radiation chemistry, radiation biology	0606
		Protection and control of radiation	0607
		Environmental radioactivity	0608
		Others	0609

Division	Sub-Division	Item	Code No.
Pharmaceutical Biology (C)	Biochemistry (07)	<u>Biomolecules</u>	
		Carbohydrates	0701
		Lipids	0702
		Proteins, amino acids	0703
		Nucleic acids	0704
		Bioactive substances	0705
		Enzymes	0706
		Oxidation-reduction (incl. active oxygen and nitrogen monoxide)	0707
		Others	0708
		<u>Genes and genetic information</u>	
		Isolation and structure of genes	0711
		DNA replication and repair	0712
		Transcription of genes	0713
		Translation of genes	0714
		Post-translational modification	0715
		Others	0716
		<u>Structures and functions of cells</u>	
		Biomembranes, organelles, and cellular transport	0721
		Electron transport chain and energy transduction	0722
		Intracellular signaling	0723
		Cellular responses	0724
		Degradation of proteins	0725
		Autophagy	0726
		Apoptosis	0727
		Cellular stress	0728
		Cell division and cell cycle regulation	0729
		Cell adhesion	0730
		Cytoskeletons	0731
		Others	0732
		<u>Anatomy and physiology</u>	
		Brain and nervous system	0741
		Immune system and biological defense	0742
		Senescence/Aging	0743
		Developmental biology and morphogenesis	0744
		Others	0745

	Pharmacology (08)	Evaluation of drug efficacy and safety Pharmacodynamics/toxicodynamics Pharmacogenomics Receptors, channels, and transporters Intracellular signaling Endogenous bioactive substances Drug metabolism Functions of central nervous system Degeneration of central nervous system Diseases and therapies of central nervous system Peripheral nervous system Endocrine and metabolic systems Inflammation and immune system Circulatory system Respiratory system Digestive system Skeletal muscles and smooth muscles Kidney, urinary organs and reproductive organs Bones and joints Blood and hematopoietic system Skins and sensory organs Chemotherapeutic agents Kampo medicines Others	0801 0802 0803 0804 0805 0806 0807 0808 0809 0810 0811 0812 0813 0814 0815 0816 0817 0818 0819 0820 0821 0822 0823 0824
	Microbiology (09)	Classification, evolution and structure of microorganisms Physiology, genetics and mutation of microorganisms Pathogenesis and infection Antibacterial, antiviral and antifungal agents Drug resistance Vaccines and bioactive agents Immune system and biological defense Virus Others	0901 0902 0903 0904 0905 0906 0907 0908 0909
Division	Sub-Division	Item	Code No.
Pharmaceutical Health Sciences and Environmental Toxicology (D)	Hygienic Chemistry and Public Health (10)	Food constituents	1001
		Nutrients	1002
		Functional foods	1003
		Food additives	1004
		Food contaminants and agrochemicals	1005
		Harmful inorganic compounds	1006
		Harmful organic compounds	1007
		Metabolism of chemical substances	1008
		Cancer and chemical substances	1009
		UV rays and phototoxicity	1010
		Analytical methods and measurement results	1011
		Forensic chemistry	1012
		Methods of analysis in health sciences	1013
		Infectious diseases and food poisoning	1014
		Lifestyle-related diseases	1015
		Others	1016

	Environmental Sciences (11)	Endocrine-disrupting substances	1101
		Harmful chemical substances and heavy metals	1102
		Water environment	1103
		Air pollution and indoor environment	1104
		Waste treatment and its regulations	1105
		Microorganisms	1106
		Environmental conservation	1107
		Others	1108
	Social Pharmacy (Other Social Issues) (12)	Regulatory sciences (foods and living environment)	1201
		Prevention of drug abuse (other than medicines)	1202
		Others	1203
Division	Sub-Division	Item	Code No.
Pharmaceutical Health Care and Sciences (E)	Pharmaceutics (13)	Gastrointestinal absorption	1301
		Transdermal absorption	1302
		Transmucosal absorption	1303
		Transpoters (ABC)	1304
		Transporters (SLC)	1305
		Transporters (others)	1306
		Distribution and excretion	1307
		Metabolism	1308
		ADME, PK/PD	1309
		Drug interaction	1310
		Others	1311
	Science for Drug Formulation (14)	Controlled release	1401
		Targeting	1402
		Drug delivery system in oncotherapy	1403
		Genetic drug delivery system	1404
		Formulation and manufacturing of drugs (Solid dosage form)	1405
		Formulation and manufacturing of drugs (Semi-solid dosage form)	1406
		Formulation and manufacturing of drugs (Liquid dosage form)	1407
		Testing, property and stability of medicinal formulation	1408
		Novel formulations	1409
		Others	1410
	Clinical Pharmacy (15)	Development of novel medicines and formulations	1501
		Formulation testing	1502
		Dispensing, prescription audit and ordering	1503
		In-house formulation	1504
		Management of intravenous and enteral nutrition	1505
		Drug management	1506
		Drug information	1507
		Therapeutic drug monitoring (TDM) and administration plans	1508
		Clinical pharmacy services at hospital (inpatient counselling)	1509
		Clinical pharmacy services at hospital (outpatient counselling)	1510
		Community pharmacy, home medical care, and community health care	1511
		Appropriate use of medicines (including drug-drug interactions)	1512
		Pharmacotherapies (Basics)	1513
		Pharmacotherapies (Clinical)	1514
		Pharmacotherapies (Cancer)	1515
		Pharmacotherapies (Personalized therapies)	1516
		Clinical trials	1517
		Risk management	1518
		Generic medicines	1519
		Others	1520

	Social Pharmacy (16)	Social pharmacy	1601
		Regulatory sciences (pharmaceuticals, etc.)	1602
		Prevention of drug abuse (medicinal products)	1603
		Pharmacoepidemiology	1604
		Health economics (Medical economics)	1605
		Others	1606
	Clinical pharmaceutical sciences (17)	<u>Pathophysiology</u>	
		Clinical biochemistry	1701
		Pathological models	1702
		Genes and gene therapy of diseases	1703
		Cancer	1704
		Pharmacological activity	1705
		Others	1706
Division	Sub-Division	Item	Code No.
Others (F)	Pharmacy education (18)	Introductory education at undergraduate level	1801
		Specialized education at undergraduate level	1802
		Pharmacy practice experience/Internship training	1803
		Graduate education	1804
		Continuing professional development of pharmacist	1805
		Others	1806
	History of Pharmacy (19)	History of pharmacy	1901
	Others (20)	Others	2001