

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 Nutrients Functional foods Food additives Food contaminants and agrochemicals Harmful inorganic compounds Harmful organic compounds Metabolism of chemical substances Cancer and chemical substances UV rays and phototoxicity Analytical methods and measurement results Forensic chemistry Methods of analysis in health sciences Infectious diseases and food poisoning Lifestyle-related diseases Others	1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016

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

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