

- PL-1 ^{99m}Tc-Labeled probes for molecular imaging utilizing the formation of mixed ligand complexes
 荒野泰 (千葉大学大学院薬学研究院)
- PL-2 Element theater -- A Scene of research and development on metallopharmaceutics
 櫻井弘 (鈴鹿医療科学大学)
- O-01 Characterization of structure and Photoinduced Electron Transfer Reaction of a Trimolecular Complex Assembled from G-quadruplex DNA, a Porphyrin Derivative, and Riboflavin
 ○深谷昌史, 太虎林, 長友重紀, 山本泰彦 (筑波大院数理物質科学)
- O-02 Structure and oxygen activation property of cobalt(II) porphyrin with an amide group
 ○山西克典, 夏目明彦, 宮澤誠通, 近藤満 (静大院理)
- O-03 Anomalous electronic structures of one-electron oxidized iron(III) porphyrin Complexes
 ○池崎章¹, 高橋正², 中村幹夫¹ (¹東邦大医, ²東邦大理工)
- O-04 Heme-mediated iron regulation mechanism
 奥谷博考¹, 宮地祐樹¹, 武田有紀子², 内田毅¹, 岩井一宏², ○石森浩一郎¹ (¹北大院理, ²阪大生命機能)
- O-05 Biomimetic and bioinspired catalysts with vitamin B₁₂ for arsenic detoxification system
 ○中村浩一郎 (日本板硝子)
- O-06 Topological classification of protein domains with respect to metallic ligand
 ○山中雅則 (日大理工)
- O-07 An export mechanism of selenium from red blood cell via anion exchanger 1
 ○北郷真史, 原武衛, 瀧上剛志, 中山守雄 (長崎大院医歯薬)
- O-08 Specific interaction between transition metal Ion and DNA mismatched base pair
 小笹哲夫¹, 今崎麻里¹, 福土京¹, 田中好幸², 小野晶³, ○鳥越秀峰¹ (¹東理大理, ²東北大院薬, ³神奈川大工)
- O-09 Zinc-mediated attenuation of NMDA receptor-dependent hippocampal CA1 LTP and relationship to attenuation after exposure to stress
 ○武田厚司, 鈴木美希, 安藤正樹, 奥直人 (静岡県大薬)
- O-10 Design and synthesis of dinuclear Zn(II) enzyme inhibitor having 8-quinolinol scaffold
 ○花屋賢悟¹, 末次美帆¹, 久松洋介¹, 有安真也², 北村正典^{1,2}, 西條慎也³, 山登一郎³, 青木伸^{1,2} (¹東理大薬, ²東理大がん医療基盤科学技術研究セ, ³東京理大基礎工)
- O-11 DNA binding properties of ligand-substituted zinc finger proteins
 ○今西未来¹, 中屋智博¹, 松村一史¹, 二木史朗¹, 杉浦幸雄² (¹京大化研, ²同女大薬)
- O-12 Roles of a Hydrogen Bond Network and an Acidic Amino Acid in the Four-Electron Reduction of Dioxygen by Multicopper Oxidases
 梶川敬雄, 栗田大輔, 森下浩稔, 田中咲子, 片岡邦重, ○櫻井武 (金沢大理工)
- O-13 Cytoglobin shapes multiple forms to regulate ligand affinity
 ○辻野博文, 能瀬梓早, 山下沢, 青山浩, 宇野公之 (阪大院薬)
- O-14 An artificial metalloenzyme containing diiron carbonyl cluster as a hydrogenase model System
 ○佐野洋平, 小野田晃, 林高史 (阪大院工)

- O-15 A membrane type matrix metalloproteinase 1 (MT1-MMP) cleaves human prion protein fragments and that is inhibited by treatment with copper ion
○秋澤俊史, 小嶋絢, 沖原梨香, 長野真, 小西元美 (摂南大薬)
- O-16 Research and development of new zinc complex with anti-diabetic effects
○藤本重行, 吉川豊, 安井裕之 (京薬大)
- O-17 Solution equilibrium study for human serum albumin-MRI imaging Gd(DTPA) adduct
亀井美緒, 黄檗達人, 小川数馬, ○小谷明 (金沢大院薬)
- O-18 Effective synthesis of tricarbonyl-^{99m}Tc chelate by microwave
○原田直弥, 木村寛之, 森大輔, 河嶋秀和, 小野正博, 佐治英郎 (京大院薬)
- O-19 Synthesis and property of long lived luminogenic DNA probe for facile DNA/RNA detection
○實吉尚郎, 阿部洋, 伊藤嘉浩 (理研基幹研)
- P-01* Selective sensing of nickel(II) by a helical peptide bearing a pair of dipicolylamine moieties
○東佑翼, 今井晴賀, 今西未来, 吉村智之, 川端猛夫, 二木史朗 (京大化研)
- P-02 Roles of copper chaperone for superoxide dismutase 1 in copper homeostasis
○小椋康光, 石塚雄大, 飯嶋友美 (昭和薬大)
- P-03* Spectroscopic characterization of drug binding to cytochrome P450 3A4
宇野公之, ○小泉温史, 金錚, 服部芳明, 鶴田諒介, Rajamanickam Vijayalakshmi, 野中朋子, 山下あずさ, 山下沢, 青山浩 (阪大院薬)
- P-04* Quadruplex DNA formation of irregularly repetitive yeast telomeric DNA sequences in the presence of metal ions
○今崎麻里, 福土京, 和田俊輔, 竹原喬, 星野秀和, 鳥越秀峰 (東理大理)
- P-05 Efficacy of combination treatment with arsenic trioxide and all-trans retinoic acid on differentiation of HL-60 cells
○角大悟, 姫野誠一郎 (徳島文理大薬)
- P-06* Effect of single nucleotide polymorphisms (SNPs) on the procarcinogen activation by human CYP1A2
宇野公之, ○野出純一, 森田早紀子, 辻本景英, 江川真文, 山下沢, 青山浩 (阪大院薬)
- P-07* Controlling hemoglobin gas affinity by heme distal and subunit interface mutations
宇野公之¹, ○中山大輔¹, 山本健太郎¹, 瀧川総太郎¹, 石丸武史¹, 山下沢¹, 青山浩¹, 林高史² (¹阪大院薬, ²阪大院工)
- P-08* Controllable submicron-sized molecular aggregation of design-based metallo-amphiphiles
○川越美規, 窪田亮, 田代省平, 塩谷光彦 (東大院理)
- P-09* Construction of Ag nanoparticle system sensitive to the active site structure in heme proteins
宇野公之, ○小宮山祐美, 金森美果, 山下沢, 青山浩 (阪大院薬)
- P-10 The impact of feeding high-fat diet (HFD) on organ distribution of trace elements in the body of mice
○竹田万里子, 吉川豊, 安井裕之 (京都薬科大学)
- P-11* Reaction mechanism of indoleamine 2,3-dioxygenase as revealed by distal and proximal mutants
宇野公之, ○川崎崇弘, 福永彩乃, 英杏子, 牛田真衣, 清田浩平, 山下沢, 青山浩 (阪大院薬)

*付はポスター賞該当演題

- P-12 spectroelectrochemistry of photoinduced electron transfer reactions between leucine and serine derivative Schiff base copper(II) complexes and titanium oxide
中山拓, 峰本正時, 西鶴仁江, ○秋津貴城 (東理大理)
- P-13 Fluorescence detection by photochromic dye of photoinduced electron transfer reactions between lysine and methionine derivative Schiff base copper(II) complexes and titanium oxide
山本翔太, 西鶴仁江, ○秋津貴城 (東理大理)
- P-14 Radical-scavenging reaction of melatonin in the presence of a metal ion
○中西郁夫¹, カビル・ゾーダー², 川島知憲¹, 上林將人¹, 松本謙一郎¹, 大久保敬^{1,3}, 福住俊一³, 安西和紀^{1,4}, 小澤俊彦^{1,5} (¹放医研, ²バングラデシュ原子力委, ³阪大院工, ⁴日本薬大, ⁵横浜薬大)
- P-15* Design and synthesis of the compounds targeting two magnesium ions located at RNase H active site of HIV-1 reverse transcriptase
○柳田浩志¹, 松元輝礁¹, 尾瀨将一¹, 高江州善寿¹, 浦野恵美子², 市川玲子², 村上努², 駒野淳², 星野忠次¹ (¹千葉大院薬, ²国立感染研)
- P-16* Construction of metallo-foldamers via metal complexation of backbone-coordinative oxime-peptides
○田代省平, 松岡晃司, 塩谷光彦 (東大院理)
- P-17 Physicochemical mechanisms associated with DNA recognition modulation in artificial zinc-finger proteins: molecular dynamics and fragment molecular orbital simulations
○能登香, 森寛敏 (¹北里大, ²お茶大アカプロ)
- P-18 Homology modeling study on the active site of rat dipeptidyl peptidase III
○秦季之¹, 廣瀬順造¹, 深澤加與子², 小野行雄¹ (¹福山大薬, ²松本歯大歯)
- P-19* The functional analysis of ZIP9 (SLC39A9) in the activation of PI3K/Akt signaling pathway
○谷口将済¹, 渡辺恵子², 福中彩子², 神野伸一郎², 神戸大朋³, 榎本秀一^{1,2}, 廣村信² (¹岡山大院医歯薬, ²理研 CMIS, ³京大院生命科学)
- P-20* Screening study of low-molecular-weight compounds for the modulation of cellular cadmium transport
○藤代瞳, 厚見祐佳里, 井上敦仁, 姫野誠一郎 (徳島文理大学薬)
- P-21* Cadmium transport in proximal tubule cells derived from mouse kidney
○矢野悠, 藤代瞳, 姫野誠一郎 (徳島文理大学薬)
- P-22* Design and synthesis of reversible pH sensors based on selective functionalization of luminescent iridium complexes
○諸見里真輔¹, 久松洋介¹, 大和田紘喜¹, 北村正典^{1,2}, 青木伸^{1,2} (¹東理大薬, ²東理大総合研)
- P-23* Analysis of the stability of metal ions in the RNase H active site of HIV-1 reverse transcriptase
○不動聡志¹, 高江洲善寿¹, 石井和彦¹, 小川博史¹, 松浦崇晃¹, 額賀路嘉², 根矢三郎¹, 星野忠次¹ (¹千葉大院薬院, ²城西国際大薬)
- P-24* The differences in hydration structures of *cis/trans*-platin: An *ab initio* molecular dynamics study in the activation processes of their anticancer function
○森寛敏¹, 平山奈津実², 古明地勇人³, 望月祐志⁴ (¹お茶大アカプロ, ²お茶大人間文化, ³産総研, ⁴立教大理)
- P-25* Different DNA-damaging potency of *cis*- and *trans*-platinum(IV) depending on interaction manner with endogenous reductants
○長谷川静穂, 新垣愛弓, 植田康次, 岡本誉士典, 小嶋仲夫 (名城大薬)

*付はポスター賞該当演題

- P-26 Molecular dynamics study on the binding of epitope peptide to human leukocyte antigen class I molecule
○ムハマド・イクバル, 松尾佑里, 根矢三郎, 星野忠次 (千葉大院薬)
- P-27* Mechanistic studies of tyosinase by using distorted dicopper complex system as a model of Type III copper site
○城田剛志, 外山智章, 猪股智彦, 小澤智宏, 舩橋靖博, 増田秀樹 (名工大工)
- P-28* High selective hydroxylation of benzene using hydrophilic copper(II) complex
○神谷美貴, 梶田裕二, 増田秀樹 (名工大工)
- P-29* Redox properties of metal(II) porphyrin complexes having an amide group near the meso-carbon
○井上恵梨奈, 山西克典, 近藤満 (静大院理)
- P-30 Monoxygenation mechanism of carbamazepine by CYP3A4
○畑晶之¹, 石井伊都子² (¹松山大薬, ²千葉大院薬)
- P-31* Construction of “a cage type Zn(II) complex” for developing a functional model of alcohol dehydrogenase
○村瀬雅和, 青木公洋, 森見由香, 猪股智彦, 小澤智宏, 舩橋靖博, 増田秀樹 (名工大工)
- P-32* Study on the reduction of renal uptake of radio-labeled octreotide derivatives
○竹中文章¹, 北村陽二², 神野伸一郎³, 秋澤宏行⁴, 荒野泰⁵, 榎本秀一^{1,3} (¹岡山大院医歯薬, ²金沢大学際科学セ, ³理研 CMIS, ⁴北医療薬, ⁵千葉大院薬)
- P-33* A novel triazacyclononane-based bifunctional chelator for multimeric ⁶⁸Ga-labeled radiopharmaceuticals
○Francisco L. GUERRA GOMEZ, 六川武美, 上原知也, 荒野泰 (千葉大院薬)
- P-34* Synthesis and evaluation of C-ODTA as chelating agent for Indium-labeled polypeptides
○金井彩香, 鈴木博元, 上原知也, 荒野泰 (千葉大院薬)
- P-35* Infrared spectroscopic analysis of an oxidative intermediate species generated from the reaction of a distorted mononuclear non-heme iron complex and a peroxy acid
○稲垣慶幸, 稲積孝哲, 猪股智彦, 小澤智宏, 舩橋靖博, 増田秀樹 (名工大院工)
- P-36* Synthesis of multinuclear manganese complexes for approaching to the Mn₄Ca cluster of PSII
○鈴木敦, 木下亘, 猪股智彦, 小澤智宏, 舩橋靖博, 増田秀樹 (名工大工)
- P-37 Two catalytic activities of the complex linked Fe(III)-thiacalix[4]arenes with Cu(II)-porphyrines *via* ionic interaction and their application to clinical analyses
近藤航, 小原昌也, 猪股智彦, ○尾堂順一 (岡山理大理)
- P-38 Physical protein interaction of C2H2 zinc finger of transcription factor Sp1 with nuclear transport factors
○桑原淳, 北村明香, 片山実佳 (同女大薬)
- P-39* Construction of multicopper oxidase model systems using a copper-clustering core constructed in a cage type ligand
○木下亘, 永田光知郎, 福井健祐, 福井将人, 和佐田祐子, 猪股智彦, 小澤智宏, 舩橋靖博, 増田秀樹 (名工大院工)
- P-40* Reaction of anti-cancer drug *cis*-diamminedichloroplatinum(II) with methyl CpG islands DNA model and its optimized structure model
小林茂樹¹, ○谷合広江¹, 福島由美子¹, 知久馬敏幸¹, 鮫島圭一郎² (¹昭和薬大, ²小田原病院)
- P-41* DNA cleavage by superoxide in the presence of metal ions
○川島知憲¹, 大久保敬², 福住俊一², 中西郁夫¹, 松本謙一郎¹ (¹放医研, ²阪大院工)

*付はポスター賞該当演題