

第 22 回 金属の関与する生体関連反応シンポジウム日程表

5月31日(木)		6月1日(金)	
9:00~ 9:05	開会あいさつ	9:00~10:20	一般講演 2 (0-05~0-08)
9:05~10:10	ポスター賞演題 口頭発表 1 (P-01~P-27)	10:20~10:30	休憩
10:10~10:20	休憩	10:30~11:30	一般講演 3 (0-09~0-11)
10:20~11:30	ポスター賞演題 口頭発表 2 (P-28~P-52)	11:30~12:10	講演 廣瀬順造先生
11:30~12:50	昼休み (評議委員会)	12:10~13:20	昼休み (ポスター展示)
12:50~13:50	ポスターセッション (奇数講演番号)	13:20~14:00	講演(兼市民講演会) 鷺山幸信先生
13:50~14:50	ポスターセッション (偶数講演番号)	14:00~14:10	休憩
14:50~15:10	休憩	14:10~15:50	一般講演 4 (0-12~0-16)
15:10~16:30	一般講演 1 (0-01~0-04)	15:50~16:00	閉会あいさつ
16:30~17:10	外国人講演 Luigi Messori		
17:10~17:20	休憩		
17:20~18:20	特別講演 増田秀樹先生		
19:00~21:00	懇親会 (ポスター賞授賞式)		

口頭発表・講演・ポスター賞演題口頭発表
: 宝ホール

ポスターセッション
: 十全講堂

外国人講演

5月31日(木) 16:30 ~ 17:10

座長 廣瀬 順造

- PL-1** Mechanistic studies on anticancer gold compounds
Luigi Messori (イタリアフローレンス大学)

特別講演

5月31日(木) 17:20 ~ 18:20

座長 小谷 明

- PL-2** 金属酵素を模倣した金属錯体による酸素の活性化
Activation of Dioxygen by Metal Complexes Inspired from
Metalloenzymes
増田 秀樹 (名古屋工業大学 大学院工学研究科)

講演

6月1日(金) 11:30 ~ 12:10

座長 櫻井 武

- PL-3** 亜鉛酵素の配位化学
Coordination Chemical Studies on Zinc Enzymes
廣瀬順造 (福山大学 薬学部)

講演（兼市民講演会）

6月1日（金） 13：20 ～ 14：00

座長 小川 数馬

PL-4

次々と元素転換する放射性金属の体内動態とがん治療への展開

Application of successive alpha-emitting radio-metals and its daughter nuclides to the radionuclide therapy

鷺山幸信（金沢大学 医薬保健研究域 保健学系）

一般演題 (口頭)

一般講演 1 : 5月31日(木) 15:10 ~ 16:30

座長 桑原 淳

- O-01 Resetting of the cellular circadian clock by an artificial zinc-finger transcription factor
○今西未来¹, 中村篤史¹, 土居雅夫², 岡村均², 二木史朗¹ (¹京大化研, ²京大院薬)
- O-02 Zinc complexes as dpeptidyl Peptidase-4 (DPP4) inhibitor mimetics
○藤澤豊¹, 植村雅子¹, 米田誠治¹, 定金豊¹, 飯田靖彦¹, 森井孫俊¹, 桜井弘^{1,2} (¹鈴鹿医療大薬, ²東京工科大応用生物)
- O-03 In vivo highly antitumor-active tetrazolato-bridged dinuclear platinum(II) complexes
○米田誠治¹, 植村雅子¹, 吉川祐子², 千熊正彦³, 矢守隆夫⁴ (¹鈴鹿医療大薬, ²立命大生命理工, ³大阪薬大, ⁴がん研究所)
- O-04 Design and synthesis of cyclometalated iridium complexes for imaging and cell death induction of cancer cells
○青木伸^{1,2}, 渋谷愛¹, 大多和修平¹, 諸美里真輔¹, 大和田紘喜¹, 久松洋介^{1,2}, 有安 真也², 北村正典^{1,2}, 鈴木利宙^{2,3}, 安部良^{2,3} (¹東理大薬, ²東理大がん医療基盤科学技術研究セ, ³東理大生命科学研)

一般講演 2 : 6月1日(金) 9:00 ~ 10:20

座長 青木 伸

- O-05 Molecular mechanism of zinc-induced neurodegeneration: involvement of calcium dyshomeostasis and carnosine
大河原晋¹, 小山裕也¹, 定金豊², 〇川原正博³ (¹九州保健福祉大薬, ²鈴鹿医療大薬, ³武蔵野大薬)
- O-06 Development of ^{67/68}Ga-radio pharmaceuticals based on chelation-mediated multivalency to enhance target accumulation
○上原知也, 六川武美, Guerra Gomez Francisco Lazaro, 花岡宏史, 荒野 泰 (千葉大院薬)

- O-07 Effect of heme electronic structure on the ligand coordination state in myoglobin
○柴田友和¹、西村龍¹、太虎林¹、石上泉²、小倉尚志²、長尾聡³、松尾貴史³、廣田俊³、鈴木秋弘⁴、根矢三郎⁵、今井清博⁶、山本泰彦¹(¹筑波大院数物,²兵県大院生命理学,³奈良先端大物質創成,⁴長岡高専物質,⁵千葉大院薬,⁶法政大生命科学)
- O-08 Synthesis, structure, and aromaticity of the Ni(II) complex of pyricorrole, a new porphyrin isomer
○根矢三郎, 鈴木優章, 星野忠次 (千葉大院薬)

一般講演 3 : 6月1日(金) 10:30 ~ 11:30

座長 小椋 康光

- O-09 Effect of “proton switch” induced by the newly introduced uncoordinated histidine in the vicinity of the blue copper active site: high resolution X-ray crystallographic, spectroscopic, and electrochemical studies of Met16His pseudoazurin
○高妻孝光, 浅村紗矢香, 仁平裕子, 海野昌喜 (茨城大院理工)
- O-10 A series of molybdoenzyme models having two intramolecular NH...S hydrogen bonds
○岡村高明、牛島靖仁、鬼塚清孝 (阪大院理)
- O-11 Heterologous expression and characterization of a multicopper oxidase from a thermophilic bacterium *geobacillus kaustophilus*
○中佐英利加, 瀬尾悌介, 櫻井 武 (金沢大院自然科学)

一般講演 4 : 6月1日(金) 14:10 ~ 15:50

座長 樋口 恒彦

- O-12 Methylation of cobalt myoglobin toward the model of vitamin B₁₂-dependent enzyme
○森田能次, 大林洵, 大洞光司, 小野田晃, 林高史 (阪大院工)
- O-13 Formation and C-H bond activation mechanisms of a mononuclear copper(II) End-on superoxo complex
○伊東忍, 大久保有理, 太農哲朗, 杉本秀樹, 藤枝伸宇 (阪大院工)
- O-14 Anti-oxidant activity of mononuclear iron complex with superoxide dismutase activity
○人見穰, 櫻田暁洋, 野村章子, 松田尚子, 小寺政人 (同志社大理工)

O-15 Direct hydroxylation of gaseous alkanes by wild-type P450BM3 containing perfluorocarboxylic acids

○川上了史, 莊司長三, 渡辺芳人 (名大物質科学国際研究セ)

O-16 Efficient cytochrome P450-mimetic oxidations catalyzed by ruthenium porphyrin

鬼頭茜, 浜口雄, 加藤信樹, 梅澤直樹, ○樋口恒彦 (名市大院薬)

ポスタ一賞応募演題口頭発表

口頭発表 1 : 5月31日(木) 9:05 ~ 10:10

進行 小川 数馬 (金沢大院薬)

番号	発表者	演題名	講演番号
1	池田 健	Synthesis of the dinitrogen-activation complex containing proton donor moiety inspired by the FeMo-cofactor	P-01
2	志水勇介	Synthesis of metal complexes with tripodal polypyridine ligand having thioamide group as hydrogenase model	P-03
3	川島知憲	Disproportionation of 2,2-diphenyl-1-picrylhydrazyl radical catalyzed by redox-inactive metal ions as lewis acids	P-04
4	片山 精	Electrochemical hydrogenation of dinitrogen to ammonia using protons originated from water under mild conditions	P-05
5	長谷中祐輝	Synthesis, structures, and properties of molybdo- and tungstoenzyme models in nonpolar solvents	P-06
6	辻 芳樹	Synthesis of a distorted manganese(II) complex and its reaction with perbenzoic acid as an oxidant	P-08
7	萩森政頼	Zn ²⁺ selective fluorescent probe based on the bipyridine scaffold for biological applications	P-09
8	山西克典	The oxygen activation property of cobalt(II) porphyrin with a pendant <i>ortho</i> -amidophenyl group	P-10
9	鈴木啓佑	Oxidation of substrate by oxygen molecule with cobalt(II) porphyrin complex with an amide group	P-12
10	飯塚菜穂	DNA-binding properties of mixed-ligand ruthenium(II) complexes capable of hydrogen-bonding	P-13
11	高橋涼香	Induction of metal transporter SLC39A8 by cadmium in vascular endothelial cells	P-19
12	小林美樹	Effect of anti-diabetic Zn complex (Zn(opt) ₂) on the protein expression of Pdx-1 in pancreas of mice	P-22
13	宗兼将之	Analysis of metabolism and anti-diabetic activity of zinc complex	P-23

14	片井涼太	Synthesis of tellurium-containing amino acids and evaluation of their biological effects	P-24
15	名波谷紀子	Homo/hetero binuclear complexes containing Cu and Zn : Synthesis and evaluation of anti-diabetic activity	P-25
16	前川翔太	Suppressive effect of Zn(opt) ₂ on LPS-induced mouse liver injury –relationship between Zn distribution and protection-	P-26
17	郡 久美子	Cytotoxicity of organobismuth and organoantimony compounds in vitro	P-27

口頭発表 2 : 5月31日(木) 10:20 ~ 11:30

進行 黄檗 達人 (金沢大院薬)

番号	発表者	演題名	講演番号
18	関根由可里	Functional analysis and characterization of HutZ from <i>Vibrio cholerae</i>	P-30
19	安原由樹	The role of lipid membrane in the course of drug metabolism by cytochrome P450	P-31
20	堀井千明	Effects of SNPs on the metabolism of amitriptylinein CYP2D6	P-32
21	高階明子	Dynamic and static properties of cytochrome <i>c'</i> from <i>Alcaligenes xylooxidans</i>	P-33
22	岡本泰典	Functional analysis of hemerythrin-like protein : Investigation of the effect on mutation around the active site	P-34
23	室矢知徳	Two steps alkaline transition of stellacyanin from lacquer tree sap of Okukuji Urushi	P-35
24	坂入 剛	Structure and properties of a blue copper protein, Pseudoazurin His6Val mutant	P-36
25	宮本正芳	Effects of single nucleotide polymorphisms (SNPs) on the interaction of human CYP reductase with CYP2C19 and its drug metabolizing properties	P-38
26	富樫ひろ美	XAS Studies of blue copper protein, plastocyanin from a fern, <i>Dryopteris chrassirhizoma</i>	P-40
27	龜井美里	Creation of binuclear purple copper site within the <i>de novo</i> coiled-coil protein	P-41

28	梶田恵理	The role of cysteine residues in the reaction of neuroglobin and nitric oxide	P-42
29	横掘 純	Hydroxylation of alkanes by the cytochrome P450BM3 mutant utilizing H ₂ O ₂ as an oxidant	P-43
30	猪田敬弘	Development of three-dimensional tomographic image reconstruction method for multi-nuclide imaging in living subjects by germanium semiconductor compton camera	P-44
31	久田隼人	Development of ¹¹¹ In-labeled anti-HER2 single-chain Fv for HER2-expressing tumor imaging	P-48
32	坂下真俊	Multidrug-efflux transport mechanisms of tumor cells for ^{99m} Tc-sestamibi and tetrofosmin	P-49
33	宮本昂明	Synthesis and evaluation of copper binding peptides as chelating agent	P-50
34	平田武史	Synthesis and evaluation of a novel ^{99m} Tc-labeled biotin derivative as an imaging probe for hypoxia-inducible factor-1-active regions in tumors using a pretargeting system	P-51
35	辻内孝文	Mechanism of hepatic uptake transport and bile excretion in hepatobiliary scintigraphy with a ^{99m} Tc labeled <i>N</i> -pyridoxyl-5-methyltryptophan	P-52

一 般 演 題 (ポスター)

質疑応答 : 5 月 31 日 (木) 12 : 50 ~ 13 : 50 (奇数)

13 : 50 ~ 14 : 50 (偶数)

*印はポスター賞応募演題

- P-01* Synthesis of the dinitrogen-activation complex containing proton donor moiety inspired by the FeMo-cofactor
○池田健, 鈴木達也, 増田秀樹 (名工大院工)
- P-02 Synthesis and Characterization of Bis-THF Iron Complex with SNS Thioamide Pincer-type Ligand as a Nitrogenase Mimic
○鈴木達也, 増田秀樹 (名工大院工)
- P-03* Synthesis of Metal Complexes with Tripodal Polypyridine Ligand Having Thioamide Group as Hydrogenase Model
○志水勇介, 鈴木達也, 小川崇彦, 増田秀樹 (名工大院工)
- P-04* Disproportionation of 2,2-Diphenyl-1-picrylhydrazyl Radical Catalyzed by Redox-Inactive Metal Ions as Lewis Acids
○川島知憲¹, 中西郁夫¹, 大久保 敬^{1,2}, 福住俊一², 小澤俊彦³, 松本謙一郎¹ (¹放医研, ²阪大院工・ALCA (JST), ³横浜薬大)
- P-05* Electrochemical Hydrogenation of Dinitrogen to Ammonia Using Protons Originated from Water under Mild Conditions
○片山精, 鈴木達也, 小川崇彦, 松本純, 増田秀樹 (名工大院工)
- P-06* Synthesis, Structures, and Properties of Molybdo- and Tungstoenzyme Models in Nonpolar Solvents
○長谷中祐輝, 岡村高明, 鬼塚清孝 (阪大院理)
- P-07 Structural Relationship between Active Site of Nitrile Hydratase and Homogeneous Transition Metal Catalysts for Hydration of Nitriles
○押木俊之, 川上由起子, 村中誠 (岡山大院自然科学)

- P-08* Synthesis of a Distorted Manganese(II) Complex and Its Reaction with Perbenzoic Acid as an Oxidant
○辻芳樹, 稲垣慶幸, 稲積孝哲, 和佐田(筒井)祐子, 梶田裕二, 猪俣智彦, 小澤智宏, 舟橋靖弘, 増田秀樹 (名工大院工)
- P-09* Zn²⁺ Selective Fluorescent Probe Based on the Bipyridine Scaffold for Biological Applications
○萩森政頼^{1,2}, 水山奈央子³, 向高弘¹, 山口泰史², 富永義則⁴, 佐治英郎⁵ (¹神戸薬大, ²長崎国際大薬, ³佐賀大, ⁴長崎大環境科学, ⁵京大院薬)
- P-10* The Oxygen Activation Property of Cobalt(II) Porphyrin with a Pendant *ortho*-Amidophenyl group
○山西克典², 近藤満¹ (¹静大機器分析セ, ²静大院理)
- P-11 Characterization of Heme-DNA Complexes Exhibiting Catalytic Activity
太虎林¹, 斎藤香織¹, 柴田友和¹, 西村龍¹, 石橋千絵¹, 逸見光², 根矢三郎³, 鈴木秋弘⁴, 小林長夫⁵, ○山本泰彦¹(筑波大院数物¹, 食総研², 千葉大院薬³, 長岡高専物質⁴, 東北大院理⁵)
- P-12* Oxidation of substrate by oxygen molecule with cobalt(II) porphyrin complex with an amide group
○鈴木啓佑², 山西克典², 近藤満¹ (¹静大機器分析セ, ²静大院理)
- P-13* DNA-Binding Properties of Mixed-Ligand Ruthenium(II) Complexes Capable of Hydrogen-Bonding
○飯塚菜穂・中井美早紀・中林安雄 (関西大化学生命工)
- P-14 Selenium-mediated oxidative DNA damage via selenodiglutathione formation
○鈴木千帆、山本 京、植田康次、岡本誉士典、小嶋仲夫 (名城大薬)
- P-15 DNA Conformational Changes Induced by Antitumor Tetrazolato-Bridged Dinuclear Pt(II) Complexes
○植村雅子¹, 藤澤豊¹, 定金豊¹, 飯田靖彦¹, 森井孫俊¹, 千熊正彦², 米田誠治¹ (鈴鹿医療大薬¹, 大阪薬大²)

- P-16 Cytotoxicity of Pt(IV) complexes against ovarian cancer cells: Effect of interaction property with reductants
○岡本誉士典, 林 香織, 村瀬朱美, 植田康次, 小嶋仲夫 (名城大薬)
- P-17 Structural Study of Anticancer Effect in 4N Pt(R-phen)(AtC3) Complexes Involving Aromatic Stacking
○松岡由貴, 竹森麻美, 黄檗達人, 小川数馬, 小谷明 (金沢大院薬)
- P-18 Efficacy of Newly Developed Platinum Complexes Against Osteosarcoma
○五十嵐健太郎¹, 山本憲男¹, 西田英司¹, 林克洋¹, 武内章彦¹, 丹沢義一¹, 木村浩明¹, 三輪真嗣¹, 下崎真吾¹, 加藤貴士¹, 小谷明², 土屋弘行¹ (金沢大医整形外科, 金沢大院薬)
- P-19* Induction of metal transporter SLC39A8 by cadmium in vascular endothelial cells
○高橋涼香¹, 藤江智也¹, 山本千夏², 鍛冶利幸¹ (¹東理大薬, ²北陸大薬)
- P-20 Enhancing effect of manganese on iron/dopamine-mediated oxidative stress leading to neuronal cell death
○武田沙織, 植田康次, 岡本誉士典, 小嶋仲夫 (名城大薬)
- P-21 Retention Characteristics of Selenium in Dorsal Root Ganglion Neurons
○原武 衛, 古賀 健太郎, 淵上 剛志, 中山 守雄 (長崎大院医歯薬)
- P-22* Effect of anti-diabetic Zn complex (Zn(opt)₂) on the protein expression of Pdx-1 in pancreas of mice
○小林美樹, 夏目優太郎, 内藤行喜, 吉川豊, 安井裕之 (京薬大)
- P-23* Analysis of metabolism and anti-diabetic activity of zinc complex
○宗兼将之¹, 神野伸一郎², 本村信治², 吉川豊³, 安井裕之³, 廣村信², 榎本秀一^{1,2} (¹岡山大院医歯薬, ²理研 CMIS, ³京薬大)
- P-24* Synthesis of tellurium-containing amino acids and evaluation of their biological effects
○片井涼太, 阿南弥寿美, 徳本真紀, 小椋康光 (昭和薬大)

- P-25* Homo/hetero binuclear complexes containing Cu and Zn : Synthesis and evaluation of anti-diabetic activity
○名波谷紀子, 諸木孝泰, 吉川豊, 安井裕之 (京薬大)
- P-26* Suppressive effect of Zn(opt)₂ on LPS-induced mouse liver injury –relationship between Zn distribution and protection-
○前川翔太, 有吉秀史, 吉川豊, 安井裕之 (京薬大)
- P-27* Cytotoxicity of organobismuth and organoantimony compounds in vitro
○郡 久美子¹, 山本 千夏², 安池 修之², 角澤直紀², 栗田城治², 鍛冶利幸¹
(¹東理大薬, ²北陸大薬)
- P-28 Flexibility of the coordination geometry around the cupric ions in Cu(II)-rat dipeptidyl peptidase III is important for the expression of enzyme activity
○廣瀬順造¹, 秦季之¹, 川岡知恵², 池浦智宏², 北原卓², 富田 久夫¹, 岩本博行², 小野行雄¹, 深澤加與子³ (¹福山大薬, ²福山大生命工学, ³松本歯科大)
- P-29 Interaction mode of zinc finger transcription factor with nuclear transport proteins
桑原 淳, ○片山実佳, 北村明香 (同志社女大薬)
- P-30* Functional Analysis and Characterization of HutZ from *Vibrio cholerae*
○関根由可里¹, 内田毅^{1,2}, 石森浩一郎^{1,2} (¹北大院総合化学, ²北大院理)
- P-31* The role of lipid membrane in the course of drug metabolism by cytochrome P450
宇野公之, ○安原由樹, 宮本正芳, 山田麻由, 山下沢, 青山浩 (阪大院薬)
- P-32* Effects of SNPs on the metabolism of Amitriptyline in CYP2D6
宇野公之, ○堀井千明, 山田麻由, 上村真司, 青山浩, 山下沢 (阪大院薬)
- P-33* Dynamic and Static Properties of Cytochrome *c*' from *Alcaligenes xylosoxidans*
○高階明子¹, Michael TIEDEMANN², Martin STILLMAN², 高妻孝光¹ (¹茨城大院理工, ²ウエスタンオンタリオ大)
- P-34* Functional Analysis of Hemerythrin-like Protein : Investigation of the Effect on Mutation around the Active Site
○岡本泰典, 小野田晃, 林高史 (阪大院工)

- P-35* Two steps alkaline transition of stellacyanin from lacquer tree sap of Okukuji Urushi
○室矢知徳¹, 高橋里佳¹, 寺門秀人², 神長正則³, Michael Tiedemann⁴, Martin J. Stillman⁴, Roman S. Czernuszewicz⁵, 高妻孝光^{1,6} (¹茨城大院理工, ²茨城県工技セ, ³奥久慈漆生産組合, ⁴ウエスタンオンタリオ大, ⁵ヒューストン大, ⁶茨城大フロンティア)
- P-36* Structure and Properties of a Blue Copper Protein, Pseudoazurin His6Val Mutant
○坂入剛, 松儀可奈子, 海野昌喜, 高妻孝光 (茨城大院理工)
- P-37 Electrochemistry of Cytochrome P450 at Nanostructured Electrodes and its Bioprocess Application
○三重安弘, 池上真志樹, 小松康雄 (産総研生物プロセス)
- P-38* Effects of Single Nucleotide Polymorphisms (SNPs) on the Interaction of Human CYP reductase with CYP2C19 and Its Drug Metabolizing Properties
○宮本正芳, 飯賀由美子, 松本麻希, 安原由樹, 青山浩, 山下沢, 宇野公之 (阪大院工)
- P-39 Serum Equilibrium Study for Ca-Fluoroquinolone-Human Serum Albumin Adduct
○竹内怜奈, 勝野次乃, 黄檜達人, 小川数馬, 小谷明 (金沢大院薬)
- P-40* XAS Studies of Blue Copper Protein, Plastocyanin from a fern, *Dryopteris chrassirhizoma*
○富樫ひろ美¹, 矢野淳子², Vittal K. Yachandra², 吉崎文則³, 高妻孝光¹ (茨城大¹, ローレンスバークレー国立研², 東邦大学³)
- P-41* Creation of binuclear purple copper site within the *de novo* coiled-coil protein
○龜井美里¹, 志賀大悟¹, 舟橋靖博¹, 増田秀樹¹, 菊地晶裕², 野田勝紀³, 内山進³, 福井希一³, 金折賢二⁴, 田嶋邦彦⁴, 鷹野優⁵, 中村春木⁵, 田中俊樹¹ (¹名工大院工, ²理研 Spring-8 セ・金沢大医恒常性制御, ³阪大院工, ⁴京都工繊大, ⁵阪大蛋白研)
- P-42* The Role of Cysteine Residues in the Reaction of Neuroglobin and Nitric Oxide
宇野公之, ○梶田恵理, 日高あかね, 山下沢, 青山浩 (阪大院薬)

- P-43* Hydroxylation of Alkanes by the Cytochrome P450BM3 mutant utilizing H₂O₂ as an oxidant
○横堀純¹, 荘司長三¹, 渡辺芳人² (¹名大院理, ²名大物質科学国際研究セ)
- P-44* Development of Three-Dimensional Tomographic Image Reconstruction Method for Multi-Nuclide Imaging in Living Subjects by Germanium Semiconductor Compton Camera
○猪田敬弘¹, 本村信治², 廣村信², 榎本秀一^{1,2} (¹岡山大院医歯薬, ²理研 CMIS)
- P-45 Relationship between biochemical indicators and arsenic exposure among people drinking tube-well water in Bangladesh
○姫野誠一郎¹, 宮高透喜¹, Khaled HOSSAIN² (¹徳島文理大薬, ²ラジシャヒ大)
- P-46 Study on a radiomeal-octabromoporphyrin complex as a tumor imaging agent
○北村陽二¹, 清水貴子², 巽朝菜², 小川数馬⁴, 小阪孝史¹, 鶴野いずみ¹, 道関美祐希¹, 三輪大輔¹, 御舩正樹², 斎藤寛², 榎本秀一^{2,3}, 柴和弘¹, (¹金沢大学際科学セ, ²岡山大院医歯薬, ³理研 CMIS, ⁴金沢大院薬)
- P-47 Development of a method for effective synthesis of ⁶⁸Ga-DOTA-labeled peptides: Microwave-assisted radiolabeling of ⁶⁸Ga-DOTATOC
○上田真史^{1,2}, 河嶋秀和³, 小野正博², ⁴中本裕士, ⁴富樫かおり, ²佐治英郎 (¹京大病院 RI, ²京大院薬, ³国立循環器病セ, ⁴京大院医)
- P-48* Development of ¹¹¹In-labeled Anti-HER2 Single-Chain Fv for HER2-expressing Tumor Imaging
○久田隼人¹, 上田真史^{1,2}, 天満敬¹, 志水陽一¹, 近藤直哉¹, 小野正博¹, 佐治英郎¹ (¹京大院薬, ²京大病院 RI)
- P-49* Multidrug-efflux transport mechanisms of tumor cells for ^{99m}Tc-sestamibi and tetrofosmin
○坂下真俊¹, 小林正和², 中西猛夫³, 大西一幸¹, 灘村崇裕¹, 西弘大¹, 大江和代², 玉井郁巳³, 川井恵一^{2,4} (¹金沢大院医, ²金沢大院保健, ³金沢大院薬, ⁴福井大高エネ研)

- P-50* **Synthesis and Evaluation of Copper Binding Peptides as Chelating Agent**
○宮本昂明¹, 竹中文章¹, 神野伸一郎², 渡辺恵子², 廣村信², 榎本秀一^{1,2}
(¹岡山大院医歯薬, ²理研 CMIS)
- P-51* **Synthesis and Evaluation of a Novel ^{99m}Tc-labeled Biotin Derivative as an Imaging Probe for Hypoxia-Inducible Factor-1-Active Regions in Tumors Using a Pretargeting System**
○平田武史¹, 上田真史^{1,2}, 小川京¹, 大島讓介¹, 木村寛之¹, 小野正博¹, 佐治英郎¹ (¹京大院薬, ²京大病院 RI)
- P-52* **Mechanism of hepatic uptake transport and bile excretion in hepatobiliary scintigraphy with a ^{99m}Tc labeled *N*-pyridoxyl-5-methyltryptophan**
○辻内孝文¹, 小林正和², 中西猛夫³, 鈴木信夫¹, 灘村崇裕¹, 西弘大¹, 大江和代², 玉井郁巳³, 川井恵一^{2,4} (¹金沢大院医, ²金沢大院保健, ³金沢大院薬, ⁴福井大高エネ研)