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陽明焦點新聞

生化所博士班學生潘逸萱贏得日本國際會議論文競賽首獎

本校生化所翟建富老師所指導的博士班三年級學生潘逸萱，參加11月28日 - 12月2日，於日本千葉縣舉辦的「2004 International Conference on Polyamines: Functions and Clinical Application」國際會議，以“The critical roles of polyamines in regulating ColE7 production and restricting ColE7 uptake in the colicin producing *Escherichia coli*”的論文題目角逐競賽，並且榮獲首獎。

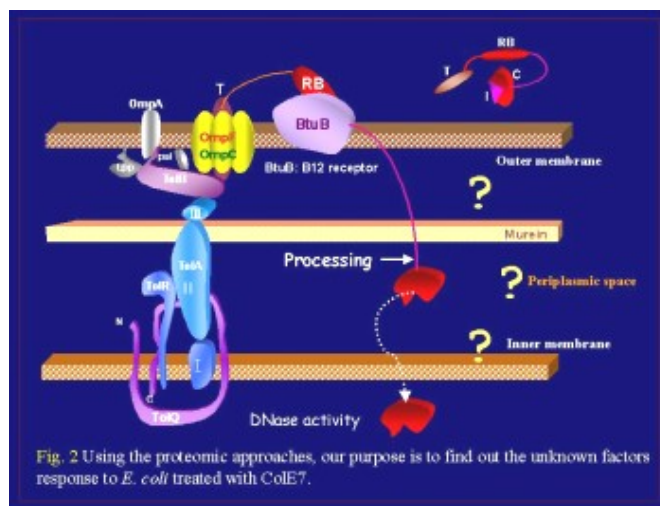


Fig. 2 Using the proteomic approaches, our purpose is to find out the unknown factors response to *E. coli* treated with ColE7.

參加競賽的Poster共有46篇論文，逸萱的論文排在P22，參加競賽者同時要上台報告五分鐘，根據與會人士傳來的訊息，逸萱以扎實的研究內容、完美的論文海報和傑出的英文簡報表現，擊敗其他參賽者贏得勝利。

逸萱的這篇論文在上學期校內論文比賽中亦曾獲得優等獎，此次能獲得國際首獎，不但是逸萱的光榮，也是陽明的光榮。

Posters

November 29, Monday, 14:30 - 17:30

November 30, Tuesday, 14:30 - 17:30

Ohnuma, M. (Tokyo University of Pharmacy and Life Science, Japan)

[P01] A new pathway for polyamine biosynthesis in an extreme thermophile, *Thermus thermophilus*

Sanka, R. (Tokyo University of Pharmacy and Life Science, Japan)

[P02] Analysis of S-adenosylmethionine decarboxylase of *Sulfolobus tokodaii*

Chitose, A. (Tokyo University of Pharmacy and Life Science, Japan)

[P03] Characterization of *speB* (agmatinase) homolog of *Thermus thermophilus*

Hasunuma, S. (Tokyo University of Pharmacy and Life Science, Japan)

[P04] Structure and function of polyamine spermidine synthase of *Aquifex aeolicus*

[特別報導]



◎大學報

◎高教簡訊

◎教育部電子報

◎國衛院電子報

- Ganbe, T. (Tokyo Institute of Technology, Japan)
- [P05] Crystal structure of polyamine aminopropyltransferase from *Thermus thermophilus*
- Fukuchi, J. (University of Chicago , USA)
- [P06] Identification of TAF7 as a regulator of polyamine transport and MGBG-induced apoptosis by gene-trap analysis
- Uemura, T. (Chiba University , Japan)
- [P07] Putrescine and spermidine uptake in *Saccharomyces cerevisiae*
- Phanstiel IV, O. (University of Central Florida , USA)
- [P08] Investigations of cell-selective drug delivery using the polyamine transporter
- Murai, N. (Jikei University School of Medicine, Japan)
- [P09] Subcellular localization and phosphorylation of antizyme 2
- Murakami, Y. (Jikei University School of Medicine, Japan)
- [P10] Possible function of antizyme inhibitor as a positive regulator of polyamines in HTC cells
- Jarvinen, A. (University of Kuopio , Finland)
- [P11] Alpha-methylated polyamine analogs as substrates for the enzymes involved in the polyamine catabolism
- Cerrada-Gimenez, M. (University of Kuopio , Finland)
- [P12] Depletion of putrescine enhances spermine production in two transgenic mouse lines with activated polyamine catabolism
- Niiranen, K. (University of Kuopio , Finland)
- [P13] Characterization of spermidine/spermine N1-acetyltransferase gene-disrupted mice
- Elliott, K. A. (Institute of Food Research , UK)
- [P14] A genetic dissection of the roles of the ornithine and arginine routes to putrescine biosynthesis in the model plant Arabidopsis
- Ohe, M. (Dokkyo University School of Medicine, Japan)
- [P15] Analysis of polyamine metabolism in soybean seedlings using ¹⁵N-labelled putrescine
- Hyvonen, M. (University of Kuopio , Finland)
- [P16] Regulation of alternative splicing of SSAT by polyamine analogues
- Takao, K. (Josai University , Japan)
- [P17] Assay method for spermidine/spermine-N1-acetyltransferase with dansyl norspermine as substrate
- Suzuki, T. (Nagoya University , Japan)
- [P18] A sensitive colorimetric assay for polyamines in erythrocytes using oat seedling polyamine oxidase
- Shin, M. (Sojo University , Japan)
- [P19] Localization of polyamines in rat testis: immunocytochemical study using a specific monoclonal antibody
- Terakado, J. (National Agricultural Research Center , Japan)
- [P20] Involvement of polyamine in nodule regulation of soybean plant
- Hamana, K. (Gunma University , Japan)
- [P21] Widespread occurrence of homospermidine and canavamine in mushrooms belonging to the phyla *Ascomycota* and *Bacidiomycota*
- Pan, Y.-H. (National Yang-Ming University , Republic of China)
- [P22] The critical roles of polyamines in regulating ColE7 production and restricting ColE7 uptake in the colicin producing *Escherichia coli*
- Hanfey, C. (Institute of Food Research , UK)
- [P23] Translational state array analysis of Arabidopsis cell cultures: effect of growth stage and cellular polyamine levels
- Inomata, E. (Chiba Institute of Technology, Japan)
- [P24] Effects of the tetrakis(3-aminopropyl)ammonium on the conformation of tRNA
- Maruyoshi, K. (Osaka University , Japan)
- [P25] Dynamic conformational change of deuterated spermidine upon complexation with ATP
- Shinozaki, H. (Tokyo University of Pharmacy and Life Science , Japan)
- [P26])
- Effects of polyamines on protein synthesis of *Thermus thermophilus*

- Moriya, T. (Tokyo University of Pharmacy and Life Science , Japan)
[P27] Effect of unusual branched polyamines for novel extreme thermophile, YMO81
- Terui, Y. (Tokyo University of Pharmacy and Life Science , Japan)
[P28] Unusual branched polyamines produced by a novel extreme thermophile, YMO81
- Nishimura, K. (Chiba University , Japan)
[P29] Independent roles of eIF5A and polyamines in cell proliferation
- Childs, A. (University of Arizona , USA)
[P30] The role of the polyamines and eIF5A in RNA processing
- Ito, T. (Josai University , Japan)
[P31] Formation of polyamine-incorporated peptide during protein digestion
- Lee, C. H. (Indiana University , USA)
[P32] Polyamines induce apoptosis in alveolar macrophages during *Pneumocystis pneumonia*
- Shiokawa, K. (Teikyo University , Japan)
[P33] Activation of caspase-9 and execution of the maternal program of apoptosis in *Xenopus* late blastulae microinjected with mRNA for *S* -adenosylmethionine decarboxylase
- Suzuki, T. (Chiba University Hospital , Japan)
[P34] Role of antizyme in the differentiation of vascular smooth muscle cells
- Sugita, Y. (Josai University , Japan)
[P35] Effect of luminal polyamines on epithelial permeability of rat small intestine
- Tomitori, H. (Fuence Co. Ltd., Japan)
[P36] Spermine oxidase and acrolein: novel biochemical markers for diagnosis of stroke
- Dalla Vedova, L. (University of Rome "La Sapienza", Italy)
[P37] Amine oxidase and spermine cause cytotoxicity on wild-type and multidrug resistant human cancer cells
- Qu, N. (University of Arizona , USA)
[P38] Influence of a single nucleotide polymorphism (SNP) on E-box protein-dependent expression of human ornithine decarboxylase
- Basuroy, U. K. (University of Arizona , USA)
[P39] Oncogenic K-ras and Src regulate polyamine uptake in colon cancer cell lines
- Nagoshi, S. (Saitama Medical School , Japan)
[P40] Polyamine depletion may prevent hepatocyte apoptosis through inhibitor of apoptosis protein-1 (IAP-1) in mice
- Samejima, K. (Josai University , Japan)
[P41] Control of spermidine and spermine levels in rat tissues by *trans* -4-methylcyclohexylamine
- Merentie, M. (University of Kuopio , Finland)
[P42] The development of acute pancreatitis in transgenic rats with activated polyamine catabolism: the role of NF-kappaB and cytokines TNF-alpha , IL -1beta and IL-6
- Pirinen, E. (University of Kuopio , Finland)
[P43] Reduced white adipose tissue mass, increased basal metabolic rate and insulin sensitivity are related to increased levels of putrescine and overexpression of PGC-1alpha in transgenic mice overexpressing spermidine/spermine N1-acetyltransferase
- Pietila, M. (University of Kuopio , Finland)
[P44] Modulation of epidermal differentiation in transgenic mice overexpressing spermidine/spermine N1-acetyltransferase by alterations in putrescine level
- Tiwari, C. (Kalika Hospital and Research Centre (PVT.) Ltd., Nepal)
[P45] Growth status significantly affects the response of human lung cancer cells to antitumor polyamine-analogue exposure
- Hirose, S. (Tokyo Institute of Technology , Japan)
[P46] Stabilization of collagen columns in gill lamellae by transglutaminase-mediated crosslinking

(資料整理 / 秘書室)

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