






## Selected Article List of Professor Tsai Ming-daw, Yen Kwo-yung Lecture in Life Sciences

### 任國榮先生生命科學講座蔡明道教授著作選：文章目錄

No. 序號	LibrarySearch URL 檢索易網址	Title / Author 篇名 / 作者	Journal 期刊	Year 年份	Issue 期號	Page 頁號
1		Serial crystallography captures dynamic control of sequential electron and proton transfer events in a flavoenzyme /Maestre-Reyna, Manuel ; Yang, Cheng-Han ; Nango, Eriko ; Huang, Wei-Cheng ; Ngurah Putu, Eka Putra Gusti ; Wu, Wen-Jin ; Wang, Po-Hsun ; Franz-Badur, Sophie ; Saft, Martin ; Emmerich, Hans-Joachim ; Wu, Hsiang-Yi ; Lee, Cheng-Chung ; Huang, Kai-Fa ; Chang, Yao-Kai ; Liao, Jiahn-Haur ; Weng, Jui-Hung ; Gad, Wael ; Chang, Chiung-Wen ; Pang, Allan H ; Sugahara, Michihiro ; Owada, Shigeki ; Hosokawa, Yuhei ; Joti, Yasumasa ; Yamashita, Ayumi ; Tanaka, Rie ; Tanaka, Tomoyuki ; Luo, Fangjia ; Tono, Kensuke ; Hsu, Kai-Cheng ; Kiontke, Stephan ; Schapiro, Igor ; Spadaccini, Roberta ; Royant, Antoine ; Yamamoto, Junpei ; Iwata, So ; Essen, Lars-Oliver ; Bessho, Yoshitaka ; Tsai, Ming-Daw	Nature Chemistry	2022	Vol.14 (6)	677-685
2		Enzymology and Dynamics by Cryogenic Electron Microscopy /Tsai, Ming-Daw ; Wu, Wen-Jin ; Ho, Meng-Chiao	Annual Review of Biophysics	2022	Vol.51	19-38
3		Identification of fidelity-governing factors in human recombinases DMC1 and RAD51 from cryo-EM structures /Luo, Shih-Chi ; Yeh, Hsin-Yi ; Lan, Wei-Hsuan ; Wu, Yi-Min ; Yang, Cheng-Han ; Chang, Hao-Yen ; Su, Guan-Chin ; Lee, Chia-Yi ; Wu, Wen-Jin ; Li, Hung-Wen ; Ho, Meng-Chiao ; Chi, Peter ; Tsai, Ming-Daw	Nature Communications	2021	Vol.12 (1)	115
4		Evidence for an Enzyme-Catalyzed Rauhut-Currier Reaction during the Biosynthesis of Spinosyn A /Choi, Sei-hyun ; Jeon, Byungsun ; Kim, Namho ; Wu, Hsin-Hui ; Ko, Tzu-Ping ; Ruszczycky, Mark W ; Isiorho, Eta A ; Liu, Yung-nan ; Keatinge-Clay, Adrian T ; Tsai, Ming-Daw ; Liu, Hung-wen	Journal of the American Chemical Society	2021	Vol.143 (48)	20291-20295

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5		Disrupting the Conserved Salt Bridge in the Trimerization of Influenza A Nucleoprotein /Woodring, Jennifer L ; Lu, Shao-Hung ; Krasnova, Larissa ; Wang, Shih-Chi ; Chen, Jih-Bin ; Chou, Chiu-Chun ; Huang, Yi-Chou ; Cheng, Ting-Jen Rachel ; Wu, Ying-Ta ; Chen, Yu-Hou ; Fang, Jim-Min ; Tsai, Ming-Daw ; Wong, Chi-Huey	Journal of Medicinal Chemistry	2020	Vol.63 (1)	205-215
6		Temperature-Resolved Cryo-EM Uncovers Structural Bases of Temperature-Dependent Enzyme Functions /Chen, Chin-Yu ; Chang, Yuan-Chih ; Lin, Bo-Lin ; Huang, Chun-Hsiang ; Tsai, Ming-Daw	Journal of the American Chemical Society	2019	Vol.141 (51)	19983-19987
7		Human DNA Polymerase $\mu$ Can Use a Noncanonical Mechanism for Multiple $Mn^{2+}$ -Mediated Functions /Chang, Yao-Kai ; Huang, Ya-Ping ; Liu, Xiao-Xia ; Ko, Tzu-Ping ; Bessho, Yoshitaka ; Kawano, Yoshiaki ; Maestre-Reyna, Manuel ; Wu, Wen-Jin ; Tsai, Ming-Daw	Journal of the American Chemical Society	2019	Vol.141 (21)	8489-8502
8		Use of Cryo-EM To Uncover Structural Bases of pH Effect and Cofactor Bispecificity of Ketol-Acid Reductoisomerase /Chen, Chin-Yu ; Chang, Yuan-Chih ; Lin, Bo-Lin ; Lin, Kuan-Fu ; Huang, Chun-Hsiang ; Hsieh, Dong-Lin ; Ko, Tzu-Ping ; Tsai, Ming-Daw	Journal of the American Chemical Society	2019	Vol.141 (15)	6136-6140
9		Catalytic Mechanism of DNA Polymerases - Two Metal Ions or Three? /Tsai, Ming-Daw	Protein Science	2019	Vol.28 (2)	288-291






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10		Thermococcus sp. 9°N DNA polymerase exhibits 3'-esterase activity that can be harnessed for DNA sequencing /LinWu, Shiuan-Woei ; Tu, Yu-Hsuan ; Tsai, Ting-Yueh ; Maestre-Reyna, Manuel ; Liu, Mu-Sen ; Wu, Wen-Jin ; Huang, Jyun-Yuan ; Chi, Hung-Wen ; Chang, Wei-Hsin ; Chiou, Chung-Fan ; Wang, Andrew H-J ; Lee, Johnsee ; Tsai, Ming-Daw	Communications Biology	2019	Vol.2 (1)	224
11		Structure of the bifunctional cryptochrome aCRY from Chlamydomonas reinhardtii /Franz, Sophie ; Ignatz, Elisabeth ; Wenzel, Sandra ; Zielosko, Hannah ; Putu, Eka Putra Gusti Ngurah ; Maestre-Reyna, Manuel ; Tsai, Ming-Daw ; Yamamoto, Junpei ; Mittag, Maria ; Essen, Lars-Oliver	Nucleic Acids Research	2018	Vol.46 (15)	8010-8022
12		STRENDA DB: enabling the validation and sharing of enzyme kinetics data /Swainston, Neil ; Baici, Antonio ; Bakker, Barbara M ; Cornish-Bowden, Athel ; Fitzpatrick, Paul F ; Halling, Peter ; Leyh, Thomas S ; O'Donovan, Claire ; Raushel, Frank M ; Reschel, Udo ; Rohwer, Johann M ; Schnell, Santiago ; Schomburg, Dietmar ; Tipton, Keith F ; Tsai, Ming-Daw ; Westerhoff, Hans V ; Wittig, Ulrike ; Wohlgemuth, Roland ; Kettner, Carsten	FEBS Journal	2018	Vol.285 (12)	2193-2204
13		Twist and turn: a revised structural view on the unpaired bubble of class II CPD photolyase in complex with damaged DNA /Maestre-Reyna, Manuel ; Yamamoto, Junpei ; Huang, Wei-Cheng ; Tsai, Ming-Daw ; Essen, Lars-Oliver ; Bessho, Yoshitaka	IUCrJ	2018	Vol.5	608-618
14		How DNA polymerases catalyze replication and repair with contrasting fidelity /Wu, Wen-Jin ; Yang, Wei ; Tsai, Ming-Daw	Nature Reviews Chemistry	2017	Vol.1 (9)	1-16






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15		Aurora A and NF- $\kappa$ B survival pathway drive chemoresistance in acute myeloid leukemia via the TRAF-interacting protein TIFA /Wei, Tong-You Wade ; Wu, Pei-Yu ; Wu, Ting-Jung ; Hou, Hsin-An ; Chou, Wen-Chien ; Teng, Chieh-Lin Jerry ; Lin, Chih-Ru ; Chen, Jo-Mei Maureen ; Lin, Ting-Yang ; Su, Hsiang-Chun ; Huang, Chia-Chi Flora ; Yu, Chang-Tze Ricky ; Hsu, Shih-Lan ; Tien, Hwei-Fang ; Tsai, Ming-Daw	Cancer Research	2017	Vol.77 (2)	494-508
16		Structural Mechanism for the Fidelity Modulation of DNA Polymerase $\lambda$ /Liu, Mu-Sen ; Tsai, Hsin-Yue ; Liu, Xiao-Xia ; Ho, Meng-Chiao ; Wu, Wen-Jin ; Tsai, Ming-Daw	Journal of the American Chemical Society	2016	Vol.138 (7)	2389-2398
17		TIFA as a crucial mediator for NLRP3 inflammasome /in, Ting-Yang ; Wei, Tong-You Wade ; Li, Shuai ; Wang, Shen-Chih ; He, Ming ; Martin, Marcy ; Zhang, Jiao ; Shentu, Tzu-Pin ; Xiao, Han ; Kang, Jian ; Wang, Kuei-Chun ; Chen, Zhen ; Chien, Shu ; Tsai, Ming-Daw ; Shyy, John Y.-J.	Proceedings of the National Academy of Sciences of the United States of America	2016	Vol.113 (52)	15078-15083
18		Aiolos collaborates with Blimp-1 to regulate the survival of multiple myeloma cells /Hung, K.-H. ; Su, S.-T. ; Chen, C.-Y. ; Hsu, P.-H. ; Huang, S.-Y. ; Wu, W.-J. ; Chen, M.-J.M. ; Chen, H.-Y. ; Wu, P.-C. ; Lin, F.-R. ; Tsai, M.-D. ; Lin, K.-I.	Cell Death and Differentiation	2016	Vol.23 (7)	1175-1184
19		The nucleolar protein NIFK promotes cancer progression via CK1 $\alpha$ / $\beta$ -catenin in metastasis and Ki-67-dependent cell proliferation /Lin, Tsung-Chieh ; Su, Chia-Yi ; Wu, Pei-Yu ; Lai, Tsung-Ching ; Pan, Wen-An ; Jan, Yi-Hua ; Chang, Yu-Chang ; Yeh, Chi-Tai ; Chen, Chi-Long ; Ger, Luo-Ping ; Chang, Hong-Tai ; Yang, Chih-Jen ; Huang, Ming-Shyan ; Liu, Yu-Peng ; Lin, Yuan-Feng ; Shyy, John Y.-J. ; Tsai, Ming-Daw ; Hsiao, Michael	eLife	2016	Vol.5	e11288

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20		A Ribonuclease Coordinates siRNA Amplification and mRNA Cleavage during RNAi /Tsai, Hsin-Yue ; Chen, Chun-Chieh G. ; Conte, Darryl ; Moresco, James J. ; Chaves, Daniel A. ; Mitani, Shohei ; Yates III, John R. ; Tsai, Ming-Daw ; Mello, Craig C.	Cell	2015	Vol.160 (3)	407-419
21		PHRF1 promotes genome integrity by modulating non-homologous end-joining /Chang, C.-F. ; Chu, P.-C. ; Wu, P.-Y. ; Yu, M.-Y. ; Lee, J.-Y. ; Tsai, M.-D. ; Chang, M.-S.	Cell Death & Disease	2015	Vol.6	e1716
22		PP2A and Aurora differentially modify Cdc13 to promote telomerase release from telomeres at G2/M phase /Shen, Zih-Jie ; Hsu, Pang-Hung ; Su, Yu-Tai ; Yang, Chia-Wei ; Kao, Li ; Tseng, Shun-Fu ; Tsai, Ming-Daw ; Teng, Shu-Chun	Nature Communications	2014	Vol.5	5312
23		Biosynthesis of Streptolidine Involved Two Unexpected Intermediates Produced by a Dihydroxylase and a Cyclase through Unusual Mechanisms /Chang, Chin-Yuan ; Lyu, Syue-Yi ; Liu, Yu-Chen ; Hsu, Ning-Shian ; Wu, Chih-Chung ; Tang, Cheng-Fong ; Lin, Kuan-Hung ; Ho, Jin-Yuan ; Wu, Chang-Jer ; Tsai, Ming-Daw ; Li, Tsung-Lin	Angewandte Chemie International Edition	2014	Vol.53 (7)	1943-1948
24		How a low-fidelity DNA polymerase chooses non-Watson-Crick from Watson-Crick incorporation /Wu, Wen-Jin ; Su, Mei-I ; Wu, Jian-Li ; Kumar, Sandeep ; Lim, Liang-hin ; Wang, Chun-Wei Eric ; Nelissen, Frank H. T ; Chen, Ming-Chuan Chad ; Doreleijers, Jurgen F ; Wijmenga, Sybren S ; Tsai, Ming-Daw	Journal of the American Chemical Society	2014	Vol.136 (13)	4927-4937






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25		Multiple complexes of long aliphatic N-acyltransferases led to synthesis of 2,6-diacylated/2-acyl-substituted glycopeptide antibiotics, effectively killing Vancomycin-Resistant Enterococcus /Lyu, Syue-Yi ; Liu, Yu-Chen ; Chang, Chin-Yuan ; Huang, Chuen-Jiuan ; Chiu, Ya-Huang ; Huang, Chun-Man ; Hsu, Ning-Shian ; Lin, Kuan-Hung ; Wu, Chang-Jer ; Tsai, Ming-Daw ; Li, Tsung-Lin	Journal of the American Chemical Society	2014	Vol.136 (31)	10989-10995
26		Fha Interaction with Phosphothreonine of TssL Activates Type VI Secretion in Agrobacterium tumefaciens /Lin, Jer-Sheng ; Wu, Hsin-Hui ; Hsu, Pang-Hung ; Ma, Lay-Sun ; Pang, Yin-Yuin ; Tsai, Ming-Daw ; Lai, Erh-Min	PLoS Pathogens	2014	Vol.10 (3)	e1003991
27		Use of quantitative mass spectrometric analysis to elucidate the mechanisms of phospho-priming and auto-activation of the checkpoint kinase Rad53 in vivo /Chen, Eric S.-W. ; Hoch, Nicolas C. ; Wang, Shun-Chang ; Pellicoli, Achille ; Heierhorst, Jörg ; Tsai, Ming-Daw	Molecular & Cellular Proteomics	2014	Vol.13 (2)	551-565
28		Ubc9 acetylation modulates distinct SUMO target modification and hypoxia response /Hsieh, Yung-Lin ; Kuo, Hong-Yi ; Chang, Che-Chang ; Naik, Mandar T ; Liao, Pei-Hsin ; Ho, Chun-Chen ; Huang, Tien-Chi ; Jeng, Jen-Chong ; Hsu, Pang-Hung ; Tsai, Ming-Daw ; Huang, Tai-Huang ; Shih, Hsiu-Ming	EMBO Journal	2013	Vol.32 (6)	791-804
29		Histone Demethylase RBP2 Promotes Lung Tumorigenesis and Cancer Metastasis /Teng, Yu-Ching ; Lee, Cheng-Feng ; Li, Ying-Shiuan ; Chen, Yi-Ren ; Hsiao, Pei-Wen ; Chan, Meng-Yu ; Lin, Feng-Mao ; Huang, Hsien-Da ; Chen, Yen-Ting ; Jeng, Yung-Ming ; Hsu, Chih-Hung ; Yan, Qin ; Tsai, Ming-Daw ; Juan, Li-Jung	Cancer Research	2013	Vol.73 (15)	4711-4721







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30		SUMOylation of Blimp-1 is critical for plasma cell differentiation /Ying, Hsia-Yuan ; Su, Shin-Tang ; Hsu, Pang-Hung ; Chang, Che-Chang ; Lin, I-Ying ; Tseng, Yu-Hsuan ; Tsai, Ming-Daw ; Shih, Hsiu-Ming ; Lin, Kuo- I	EMBO reports	2012	Vol.13 (7)	631-637
31		The histone H3K36 demethylase Rph1/KDM4 regulates the expression of the photoreactivation gene PHR1 /Liang, Chung-Yi ; Hsu, Pang-Hung ; Chou, Dai-Fang ; Pan, Chao-Yu ; Wang, Long-Chi ; Huang, Wei-Chieh ; Tsai, Ming-Daw ; Lo, Wan-Sheng	Nucleic Acids Research	2011	Vol.39 (10)	4151-4165
32		Interception of teicoplanin oxidation intermediates yields new antimicrobial scaffolds /Liu, Yu-Chen ; Li, Yi-Shan ; Lyu, Syue-Yi ; Hsu, Li-Jen ; Chen, Yu-Hou ; Huang, Yu-Ting ; Chan, Hsiu-Chien ; Huang, Chuen-Jiuan ; Chen, Gan- Hong ; Chou, Chia-Cheng ; Tsai, Ming-Daw ; Li, Tsung-Lin	Nature Chemical Biology	2011	Vol.7 (5)	304-309
33		E339...R416 salt bridge of nucleoprotein as a feasible target for influenza virus inhibitors /Shen, Yu-Fang ; Chen, Yu-Hou ; Chu, Shao-Ying ; Lin, Meng-I ; Hsu, Hua- Ting ; Wu, Pei-Yu ; Wu, Chao-Jung ; Liu, Hui-Wen ; Lin, Fu-Yang ; Lin, Gialih ; Hsu, Pang-Hung ; Yang, An-Suei ; Cheng, Yih-Shyun E ; Wu, Ying- Ta ; Wong, Chi-Huey ; Tsai, Ming-Daw	Proceedings of the National Academy of Sciences of the United States of America	2011	Vol.108 (40)	16515- 16520
34		Unique Catalytic Mechanism of Phosphatidylinositol-Specific Phospholipase C from Streptomyces antibioticus /Bai, Chuan ; Zhao, Li ; Tsai, Ming-Daw ; Bruzik, Karol S.	Journal of the American Chemical Society	2010	Vol.132 (4)	1210-1211

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35		High-throughput identification of compounds targeting influenza RNA-dependent RNA polymerase activity /Su, Ching-Yao ; Cheng, Ting-Jen R. ; Lin, Meng-I. ; Wang, Shi-Yun ; Huang, Wen-I. ; Lin-Chua, Shao-Ying ; Chen, Yu-Hou ; Wu, Chung-Yi ; Lai, Michael M.C. ; Cheng, Wei-Chieh ; Wu, Ying-Ta ; Tsai, Ming-Daw ; Cheng, Yih-Shyun E. ; Wong, Chi-Huey	Proceedings of the National Academy of Sciences of the United States of America	2010	Vol.107 (45)	19151-19156
36		JNK-mediated turnover and stabilization of the transcription factor p45/NF-E2 during differentiation of murine erythroleukemia cells /Lee, Tung-Liang ; Shyu, Yu-Chiau ; Hsu, Pang-Hung ; Chang, Chiung-Wen ; Wen, Shau-Ching ; Hsiao, Wei-Yuan ; Tsai, Ming-Daw ; Shen, Che-Kun James	Proceedings of the National Academy of Sciences of the United States of America	2010	Vol.107 (1)	52-57
37		Contributions of conserved TPLH tetrapeptides to the conformational stability of ankyrin repeat proteins /Guo, Yi ; Yuan, Chunhua ; Tian, Feng ; Huang, Kun ; Weghorst, Christopher M. ; Tsai, Ming-Daw ; Li, Junan	Journal of Molecular Biology	2010	Vol.399 (1)	168-181
38		AMP-Activated Protein Kinase Functionally Phosphorylates Endothelial Nitric Oxide Synthase Ser633 /Chen, Zhen ; Peng, I-Chen ; Sun, Wei ; Su, Mei-I ; Hsu, Pang-Hung ; Fu, Yi ; Zhu, Yi ; DeFea, Kathryn ; Pan, Songqin ; Tsai, Ming-Daw ; Shyy, John Y-J	Circulation Research	2009	Vol.104 (4)	496-505
39		Trans-Cyclization of Phosphatidylinositol Catalyzed by Phospholipase C from Streptomyces antibioticus /Bai, Chuan ; Zhao, Li ; Rebecchi, Mario ; Tsai, Ming-Daw ; Bruzik, Karol S	Journal of the American Chemical Society	2009	Vol.131 (24)	8362-8363
40		Mismatched dNTP Incorporation by DNA Polymerase $\beta$ Does Not Proceed via Globally Different Conformational Pathways /Tang, Kuo-Hsiang ; Niebuhr, Marc ; Tung, Chang-Shung ; Chan, Hsiu-chien ; Chou, Chia-Cheng ; Tsai, Ming-Daw	Nucleic Acids Research	2008	Vol.36 (9)	2948-2957









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41		Solution structures of 2:1 and 1:1 DNA polymerase-DNA complexes probed by ultracentrifugation and small-angle X-ray scattering /Tang, Kuo-Hsiang ; Niebuhr, Marc ; Aulabaugh, Ann ; Tsai, Ming-Daw	Nucleic Acids Research	2008	Vol.36 (3)	849-860
42		The ARID domain of the H3K4 demethylase RBP2 binds to a DNA CCGCCC motif /Juan, Li-Jung ; Cheng, An-Ning ; Chan, Meng-Yu ; Lin, Po-Hsun ; Wu, Ying-Ta ; Tu, Shengjiang ; Tsai, Ming-Daw ; Yuan, Chunhua ; Teng, Yu-Ching	Nature Structural & Molecular Biology	2008	Vol.15 (4)	419-421
43		Structure and Function of the Phosphothreonine-Specific FHA Domain /Mahajan, Anjali ; Yuan, Chunhua ; Lee, Hyun ; Chen, Eric S.-W. ; Wu, Pei-Yu ; Tsai, Ming-Daw	Science Signaling	2008	Vol.1 (51)	re12
44		Structure and Function of 2:1 DNA Polymerase•DNA Complexes /Tang, Kuo-Hsiang ; Tsai, Ming-Daw	Journal of Cellular Physiology	2008	Vol.216 (2)	315-320
45		A Unique Flavin Mononucleotide-linked Primary Alcohol Oxidase for Glycopeptide A40926 Maturation /Li, Yi-Shan ; Ho, Jin-Yuan ; Huang, Chia-Chi ; Lyu, Syue-Yi ; Lee, Chun-Yen ; Huang, Yu-Ting ; Wu, Chang-Jer ; Chan, Hsiu-Chien ; Huang, Chuan-Jiuan ; Hsu, Ning-Shian ; Tsai, Ming-Daw ; Li, Tsung-Lin	Journal of the American Chemical Society	2007	Vol.129 (44)	13384-13385
46		Human p16 $\gamma$ , a novel transcriptional variant of p16 <sup>INK4A</sup> , coexpresses with p16 <sup>INK4A</sup> in cancer cells and inhibits cell-cycle progression /Lin, Y-C ; Diccianni, M B ; Kim, Y ; Lin, H-H ; Lee, C-H ; Lin, R-J ; Joo, S H ; Li, J ; Chuang, T-J ; Yang, A-S ; Kuo, H-H ; Tsai, M-D ; Yu, A L	Oncogene	2007	Vol.26 (49)	7017-7027







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47		Dissection of Protein-Protein Interaction and CDK4 Inhibition in the Oncogenic versus Tumor Suppressing Functions of Gankyrin and P16 /Mahajan, Anjali ; Guo, Yi ; Yuan, Chunhua ; Weghorst, Christopher M. ; Tsai, Ming-Daw ; Li, Junan	Journal of Molecular Biology	2007	Vol.373 (4)	990-1005
48		Mechanistic comparison of high-fidelity and error-prone DNA polymerases and ligases involved in DNA repair /Showalter, Alexander K. ; Lamarche, Brandon J. ; Bakhtina, Marina ; Su, Mei-I ; Tang, Kuo-Hsiang ; Tsai, Ming-Daw	Chemical Reviews	2006	Vol.106 (2)	340-360
49		Glycopeptide biosynthesis: Dbv21/Orf2 from dbv/tcp gene clusters are N-Ac-Glm teicoplanin pseudoaglycone deacetylases and Orf15 from cep gene cluster is a Glc-1-P thymidyltransferase /HO, Jin-Yuan ; HUANG, Yu-Ting ; WU, Chang-Jer ; LI, Yi-Shan ; TSAI, Ming-Daw ; LI, Tsung-Lin	Journal of the American Chemical Society	2006	Vol.128 (42)	13694-13695
50		Sequential phosphorylation and multisite interactions characterize specific target recognition by the FHA domain of Ki67 /Gronenborn, Angela M ; Tsai, Ming-Daw ; Byeon, In-Ja L ; Li, Hongyuan ; Song, Haiyan	Nature Structural & Molecular Biology	2005	Vol.12 (11)	987-993
51		FHA Domain-Ligand Interactions: Importance of Integrating Chemical and Biological Approaches /Mahajan, Anjali ; Yuan, Chunhua ; Pike, Brietta L ; Heierhorst, Jörg ; Chang, Chi-Fon ; Tsai, Ming-Daw	Journal of the American Chemical Society	2005	Vol.127 (42)	14572-14573
52		Structure of human Ki67 FHA domain and its binding to a phosphoprotein fragment from hNIFK reveal unique recognition sites and new views to the structural basis of FHA domain functions /Li, Hongyuan ; Byeon, In-Ja L. ; Ju, Yong ; Tsai, Ming-Daw	Journal of Molecular Biology	2004	Vol.335 (1)	371-381







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53		A Novel Calcium-Dependent Bacterial Phosphatidylinositol-Specific Phospholipase C Displaying Unprecedented Magnitudes of Thio Effect, Inverse Thio Effect, and Stereoselectivity /Zhao, Li ; Liu, Yinghui ; Bruzik, Karol S ; Tsai, Ming-Daw	Journal of the American Chemical Society	2003	Vol.125 (1)	22-23
54		Application of Brønsted-Type LFER in the Study of the Phospholipase C Mechanism /Mihai, Cornelia ; Kravchuk, Alexander V ; Tsai, Ming-Daw ; Bruzik, Karol S	Journal of the American Chemical Society	2003	Vol.125 (11)	3236-3242
55		Biocatalysis and biotransformation enzymology in the genomics era /Begley, Tadhg P ; Tsai, Ming-Daw	Current Opinion in Chemical Biology	2003	Vol.7 (2)	228-229
56		A Low-barrier Hydrogen Bond Between Histidine of Secreted Phospholipase A <sub>2</sub> and a Transition State Analog Inhibitor /Poi, Ming Jye ; Tomaszewski, John W. ; Yuan, Chunhua ; Dunlap, Christopher A. ; Andersen, Niels H. ; Gelb, Michael H. ; Tsai, Ming-Daw	Journal of Molecular Biology	2003	Vol.329 (5)	997-1009
57		Crystal structures of the free and anisic acid bound triple mutant of phospholipase A <sub>2</sub> /Sekar, K. ; Mala, S. Vaijayanthi ; Yogavel, M. ; Velmurugan, D. ; Poi, Ming-Jye ; Vishwanath, B.S. ; Gowda, T.V. ; Jeyaprakash, A. Arokia ; Tsai, M.-D.	Journal of Molecular Biology	2003	Vol.333 (2)	367-376
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### 任國榮先生生命科學講座蔡明道教授著作選：文章目錄

No. 序號	LibrarySearch URL 檢索易網址	Title / Author 篇名 / 作者	Journal 期刊	Year 年份	Issue 期號	Page 頁號
59		Structure-based Combinatorial Protein Engineering (SCOPE) /O'Maille, Paul E. ; Bakhtina, Marina ; Tsai, Ming-Daw	Journal of Molecular Biology	2002	Vol.321 (4)	677-691
60		FHA: A Signal Transduction Domain with Diverse Specificity and Function /Tsai, Ming-Daw	Structure	2002	Vol.10 (7)	887-888
61		Interfacial Enzymology: The Secreted Phospholipase A <sub>2</sub> -Paradigm /Berg, Otto G ; Gelb, Michael H ; Tsai, Ming-Daw ; Jain, Mahendra Kumar	Chemical Reviews	2001	Vol.101 (9)	2613-2654
62		Solution structure of a viral DNA polymerase X and evidence for a mutagenic function /Byeon, In-Ja L ; Tsai, Ming-Daw ; Showalter, Alexander K ; Su, Mei-I	Nature Structural & Molecular Biology	2001	Vol.8 (11)	942-946
63		A DNA Polymerase with Specificity for Five Base Pairs /Showalter, Alexander K ; Tsai, Ming-Daw	Journal of the American Chemical Society	2001	Vol.123 (8)	1776-1777
64		Solution Structure of the Yeast Rad53 FHA2 Complexed with a Phosphothreonine Peptide pTXXL: Comparison with the Structures of FHA2-pYXL and FHA1-pTXXD Complexes /Byeon, In-Ja L. ; Yongkiettrakul, Suganya ; Tsai, Ming-Daw	Journal of Molecular Biology	2001	Vol.314 (3)	577-588

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66		Tumor suppressor INK4: Refinement of p16 <sup>INK4A</sup> structure and determination of p15 <sup>INK4B</sup> structure by comparative modeling and NMR data /Yuan, Chunhua ; Selby, Thomas L. ; Li, Junan ; Byeon, In-Ja L. ; Tsai, Ming-Daw	Protein Science	2000	Vol.9 (6)	1120-1128
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