

## NHRI Publication\_Jul 2022

### Center for Neuropsychiatric Research

1. Trubetskoy, V; Pardiñas, AF; Qi, T; Panagiotaropoulou, G; Awasthi, S; Bigdeli, TB; Bryois, J; Chen, CY; Dennison, CA; Hall, LS; Lam, M; Watanabe, K; Frei, O; et al. [Mapping genomic loci implicates genes and synaptic biology in schizophrenia](#). Nature. 2022 Apr; 604(7906): 502-508.

### Forum

1. Liang, LY; Tsai, MC; Shih, KC; Huang, SM; Morisky, DE; Fu, E. [Tooth life expectancy and burden of tooth loss: Two cross-sectional studies in Taiwan](#). Journal of Dental Sciences. 2022 Jul 17(3): 1364-1370.

### Immunology Research Center

1. Chi, JN; Yang, JY; Hsueh, CH; Tsai, CY; Chuang, HC; Tan, TH. [MAP4K3/GLK inhibits Treg differentiation by direct phosphorylating IKK  \$\beta\$  and inducing IKK  \$\beta\$ -mediated FoxO1 nuclear export and Foxp3 downregulation](#). Theranostics. 2022 Jul 18; 12(12): 5744-5760.
2. Chuang, HC; Hsueh, CH; Hsu, PM; Huang, RH; Tsai, CY; Chung, NH; Chow, YH; Tan, TH. [SARS-CoV-2 spike protein enhances MAP4K3/GLK-induced ACE2 stability in COVID-19](#). EMBO Molecular Medicine. 2022 Jul 27: Article number e15904.
3. Doan, LH; Chu, LW; Huang, ZY; Nguyen, AT; Lee, CY; Huang, CL; Chang, YF; Hsieh, WY; Nguyen, TTH; Lin, CH; Su, CL; Chuang, TH; Lai, JM; et al. [Virofree, an herbal medicine-based Formula, interrupts the viral infection of delta and omicron variants of SARS-CoV-2](#). Frontiers in Pharmacology. 2022 Jul 04; 13: Article number 905197.

### Institute of Biomedical Engineering and Nanomedicine

1. Chiu, YH; Chen, IC; Su, CY; Tsai, HH; Young, TH; Fang, HW. [Development of injectable calcium sulfate and self-setting calcium phosphate composite bone graft materials for](#)

- [minimally invasive surgery](#). International Journal of Molecular Sciences. 2022 Jul 8; 23(14): Article number 7590.
2. Chen, TF; Lee, SH; Zheng, WR; Hsu, CC; Cho, KH; Kuo, LW; Chou, CCK; Chiu, MJ; Tee, BL; Cheng, TJ. [White matter pathology in alzheimer's transgenic mice with chronic exposure to low-level ambient fine particulate matter](#). Particle and Fibre Toxicology. 2022 Jun 30; 19: Article number 44.
  3. Chuang, YC; Chen, YP; Wu, HM; Hsu, JS; Lo, LW; Wang, YM. [Matrix metalloproteinase-directed precise targeting and smart drug delivery of biodegradable gold nanodandelions as CT imaging guided anticancer therapy](#). Journal of Drug Delivery Science and Technology. 2022 Aug; 74: Article number 103563.
  4. Sivasubramanian, M; Chu, CH; Cheng, SH; Chen, NT; Chen, CT; Chuang, YC; Yu, H; Chen, YL; Liao, LD; Lo, LW. [Multimodal magnetic resonance and photoacoustic imaging of tumor-specific enzyme-responsive hybrid nanoparticles for oxygen modulation](#). Frontiers in Bioengineering and Biotechnology. 2022 Jul 13; 10: Article number 910902.

### **Institute of Biotechnology and Pharmaceutical Research**

1. Yeh, CH; Shen, ZQ; Wang, TW; Kao, CH; Teng, YC; Yeh, TK; Lu, CK; Tsai, TF. [Hesperetin promotes longevity and delays aging via activation of Cisd2 in naturally aged mice](#). Journal of Biomedical Science. 2022 Jul 24; 29: Article number 53.
2. Deng, N; Wu, YY; Feng, Y; Hsieh, WC; Song, JS; Lin, YS; Tseng, YH; Liao, WJ; Chu, YF; Liu, YC; Chang, EC; Liu, CR; Sheu, SY; et al. [Chemical interference with DSIF complex formation lowers synthesis of mutant huntingtin gene products and curtails mutant phenotypes](#). Proceedings of the National Academy of Sciences of the United States of America. 2022 Aug 9; 119(32): Article number e2204779119.
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4. Lee, YZ; Hsu, HY; Yang, CW; Lin, YL; Chang, SY; Yang, RB; Liang, JJ; Chao, TL; Liao, CC; Kao, HC; Chang, JY; Sytwu, HK; Chen, CT; Lee, SJ. [The synergistic inhibition of](#)

[coronavirus replication and induced cytokine production by ciclesonide and the tylophorine-based compound dbq33b](#). *Pharmaceutics*. 2022 Jul 21; 14(7): Article number 1511.

### **Institute of Cellular and Systems Medicine**

1. Wong, CW; Tsai, KC; Shrestha, LK; Ariga, K; Hsu, SH. [Effects of hydrophilic fullerene nanoarchitected structures on the behaviour of neural stem cells](#). *Nanoscale*. 2022 Jul 25; Article in Press.
2. Chen, WL; Nithiyantham, S; Mao, YC; Muo, CH; Chuu, CP; Liu, SP; Huang, MW; Su, KP. [Haloperidol and other antipsychotics exposure before endometrial cancer diagnosis: A population-based case-control study](#). *Clinical Psychopharmacology and Neuroscience*. 2022 Aug 31; 20(3): 526-535.
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### **Institute of Molecular and Genomic Medicine**

1. Shyu, YC; Liao, PC; Huang, TS; Yang, CJ; Lu, MJ; Huang, SM; Lin, XY; Liou, CC; Kao, YH; Lu, CH; Peng, HL; Chen, JR; Cherng, WJ; et al. [Genetic disruption of KLF1 K74 sUMOylation in hematopoietic system promotes healthy longevity in mice](#). *Advanced Science*. 2022 Jul 14; Article in Press.
2. Nieh, YC; Chou, YT; Chou, YT; Wang, CY; Lin, SX; Ciou, SC; Yuh, CH; Wang, HD. [Suppression of ribose-5-phosphate isomerase a induces ROS to activate autophagy, apoptosis, and cellular senescence in lung cancer](#). *International Journal of Molecular Sciences*. 2022 Jul 17; 23(14): Article number 7883.
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4. Yeh, CH; Shen, ZQ; Wang, TW; Kao, CH; Teng, YC; Yeh, TK; Lu, CK; Tsai, TF. [Hesperetin promotes longevity and delays aging via activation of Cisd2 in naturally aged mice](#). Journal of Biomedical Science. 2022 Jul 24; 29: Article number 53.
5. Tien, CF; Tsai, WT; Chen, CH; Chou, HJ; Zhang, MM; Lin, JJ; Lin, EJ; Dai, SS; Ping, YH; Yu, CY; Kuo, YP; Tsai, WH; Chen, HW; Yu, GY. [Glycosylation and S-palmitoylation regulate SARS-CoV-2 spike protein intracellular trafficking](#). iScience. 2022 Aug 19; 25(8): Article number 104709.
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### **Institute of Population Health Sciences**

1. Liu, CM; Shih, ESC; Chen, JY; Huang, CH; Wu, IC; Chen, PF; Higa, S; Yagi, N; Hu, YF; Hwang, MJ; Chen, SA. [Artificial intelligence-enabled electrocardiogram improves the diagnosis and prediction of mortality in patients with pulmonary hypertension](#). JACC: Asia. 2022 Jun; 2(3, Part 1): 258-270.
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3. Lan, YT; Wu, SI; Lin, YH. [Utilizing internet search volume to monitor stages of change in vaccine hesitancy during the COVID-19 outbreaks](#). Frontiers in Public Health. 2022 Jul 04; 10: Article number 844543.
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5. Sheen, YJ; Hsu, CC; Kung, PT; Chiu, LT; Tsai, WC. [Impact of chronic hepatitis on cardiovascular events among type 2 diabetes patients in Taiwan pay-for-performance program](#). Scientific Reports. 2022 Jul 09; 12: Article number 11720.
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17. Chiang, NJ; Tan, KT; Bai, LY; Hsiao, CF; Huang, CY; Hung, YP; Huang, CJ; Chen, SC; Shan, YS; Chao, Y; Huang, YH; Lee, IC; Lee, PC; Su, YY; et al. [Impaired chromatin remodeling predicts survival to modified gemcitabine and S-1 plus nivolumab in advanced biliary tract cancer: A phase II T1219 study](#). Clinical Cancer Research. 2022 Jul 18; Article in Press.
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### **National Center for Geriatrics and Welfare Research**

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### **National Institute of Cancer Research**

1. Kuo, CL; Chou, HY; Lien, HW; Yeh, CA; Wang, JR; Chen, CH; Fan, CC; Hsu, CP; Kao, TY; Ko, TM; Lee, AYL. [A Fc-VEGF chimeric fusion enhances PD-L1 immunotherapy via inducing immune reprogramming and infiltration in the immunosuppressive tumor microenvironment](#). Cancer Immunology Immunotherapy. 2022 Jul 27; Article in Press.

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5. Hou, YC; Chen, CY; Huang, CJ; Wang, CJ; Chao, YJ; Chiang, NJ; Wang, HC; Tung, HL; Liu, HC; Shan, YS. [The differential clinical impacts of cachexia and sarcopenia on the prognosis of advanced pancreatic cancer](#). Cancers. 2022 Jun 26; 14(13): Article number 3137.
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## National Institute of Environmental Health Sciences

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4. Ho, JC; Wen, HJ; Sun, CW; Tsai, SF; Su, PH; Chang, CL; Sun, HL; Wang, SL; Lee, CH. [Prenatal exposure to nickel and atopic dermatitis at age 3 years: A birth cohort study with cytokine profiles](#). Journal of the European Academy of Dermatology and Venereology. 2022 Jul 16; Article in Press.



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## National Institute of Infectious Diseases and Vaccinology

1. Lee, YZ; Hsu, HY; Yang, CW; Lin, YL; Chang, SY; Yang, RB; Liang, JJ; Chao, TL; Liao, CC; Kao, HC; Chang, JY; Sytwu, HK; Chen, CT; Lee, SJ. [The synergistic inhibition of coronavirus replication and induced cytokine production by ciclesonide and the tylophorine-based compound dbq33b](#). *Pharmaceutics*. 2022 Jul 21; 14(7): Article number 1511.
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4. Tien, CF; Tsai, WT; Chen, CH; Chou, HJ; Zhang, MM; Lin, JJ; Lin, EJ; Dai, SS; Ping, YH; Yu, CY; Kuo, YP; Tsai, WH; Chen, HW; Yu, GY. [Glycosylation and S-palmitoylation regulate SARS-CoV-2 spike protein intracellular trafficking](#). *iScience*. 2022 Aug 19; 25(8): Article number 104709.

## National Mosquito-Borne Diseases Control Research Center

1. Cheng, DY; Huang, SW; Chin, WX; Hung, SJ; Tsai, HP; Chu, JJH; Chao, CH; Wang, JR. [Impact of intrahost NS5 nucleotide variations on dengue virus replication](#). *Frontiers in Microbiology*. 2022 Jul 05; 13: Article number 894200.

## NHRI Graduate Student Program

1. Chu, MC; Wu, HF; Lee, CW; Chung, YJ; Chi, H; Chen, PS; Lin, HC. [Generational synaptic functions of GABA\(A\) receptor  \$\beta\$  3 subunit deteriorations in an animal model of social deficit](#). *Journal of Biomedical Science*. 2022 Jul 11; 29: Article number 51.
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3. Liu, YW; Kao, CN; Chiang, HH; Lee, JY; Li, HP; Chang, PC; Chou, SH. [Pulmonary completion lobectomy after segmentectomy: An integrated analysis of perioperative outcomes](#). *Thoracic Cancer*. 2022 Jul 05; Article in Press.