

NHRI Publication _Dec 2022

Center for Neuropsychiatric Research

1. Chen, HM; Chung, YCE; Chen, HC; Liu, YW; Chen, IM; Lu, ML; Hsiao, FSH; Chen, CH; Huang, MC; Shih, WL; Kuo, PH. [Exploration of the relationship between gut microbiota and fecal microRNAs in patients with major depressive disorder](#). Scientific Reports. 2022 Dec 05; 12: Article number 20977.
2. Bukari, I; Huang, WT; Issahalq, DM; Agyemang-Prempeh, AA; Konney, A; Yussif, H; Yakubu, YA; Geisler, CH; Chen, WJ. [Assessing the brighton collaboration case definition of sensorineural hearing loss in ghana](#). American Journal of Tropical Medicine and Hygiene. 2022 Dec 14; 107(6): 1351-1354.

Immunology Research Center

1. Kano, H; Izumi, K; Hiratsuka, K; Toriumi, R; Nakagawa, R; Aoyama, S; Kamijima, T; Shimada, T; Naito, R; Kadomoto, S; Iwamoto, H; et al. [Suppression of androgen receptor signaling induces prostate cancer migration via activation of the CCL20-CCR6 axis](#). Cancer Science. 2022 Dec 07; Article in Press.

Institute of Biomedical Engineering and Nanomedicine

1. Chen, IC; Su, CY; Chen, PY; Hoang, TC; Tsou, YS; Fang, HW. [Investigation and characterization of factors affecting rheological properties of poloxamer-based thermo-sensitive hydrogel](#). Polymers. 2022 Dec 7; 14(24): Article number 5353.
2. Kung, Y; Wu, CH; Lin, MT; Liao, WH; Chen, WS; Hsiao, MY. [Blood-cerebrospinal fluid barrier opening by modified single pulse transcranial focused shockwave](#). Drug Delivery. 2023 Dec; 30(1): 97-107.
3. Yu, TH; Yeh, TT; Su, CY; Yu, NY; Chen, IC; Fang, HW. [Preparation and characterization of extracellular matrix hydrogels derived from acellular cartilage tissue](#). Journal of Functional Biomaterials. 2022 Dec 7; 13(4): Article number 279.

4. Atila, D; Keskin, D; Lee, YL; Lin, FH; Hasirci, V; Tezcaner, A. [Injectable methacrylated gelatin/thiolated pectin hydrogels carrying melatonin/tideglusib-loaded core/shell PMMA/silk fibroin electrospun fibers for vital pulp regeneration](#). Colloids and Surfaces. B, Biointerfaces. 2023 Feb; 222: Article number 113078.
5. Huang, CJ; Lin, WL; Hwang, SC; Yao, C; Chang, H; Chen, YY; Kuo, LW. [A feasibility study of wireless inductively coupled surface coil for MR-guided high-intensity focused ultrasound ablation of rodents on clinical MRI systems](#). Scientific Reports. 2022 Dec 19; 12: Article number 21907.
6. Wu, JY; Ching, CT; Wang, HD; Liao, LD. [Emerging wearable biosensor technologies for stress monitoring and their real-world applications](#). Biosensors. 2022 Nov 30; 12(12): Article number 1097.
7. Ku, CJ; Wang, Y; Chang, CY; Wu, MT; Dai, ST; Liao, LD. [Noninvasive blood oxygen, heartbeat rate, and blood pressure parameter monitoring by photoplethysmography signals](#). Heliyon. 2022 Nov; 8(11): Article number e11698.
8. Wang, PC; Lin, TH; Chao, YT; Fan, CC; Lu, TF; Tsai, HS; Shih, YC; Lo, CJ; Pai, PC; Tseng, CK; Hung, TM; Lo, LW; Tsai, HY; Lin, MW. [Physicochemical effects of proton implantation doping on transparent nanoscale thin films of polyaniline emeraldine base covalently fabricated on organosilanized surfaces](#). Progress in Organic Coatings. 2023 Feb; 175: Article number 107129.
9. De Bartolo, L; Piscioneri, A; Stamatialis, D; Lin, FH. [Bioengineering systems for therapeutic and in vitro platforms](#). Frontiers in Bioengineering and Biotechnology. 2022 Nov 22; 10: Article number 1090317.

Institute of Biotechnology and Pharmaceutical Research

1. Wang, CC; Wang, SS; Liao, CL; Tsai, WR; Tung, CW. [Reconfiguring the online tool of SkinSensPred for predicting skin sensitization of pesticides](#). Journal of Pesticide Science. 2022 Nov 20; 47(4): 184-189.
2. Shen, KY; Yang, CH; Chen, CT; Ho, HM; Chiu, FF; Huang, CY; Liao, HC; Hsu, CW; Yu, GY; Liao, CL; Chen, HW; Huang, MH; Liu, SJ. [Omicron-specific mRNA vaccine induced](#)

[cross-protective immunity against ancestral SARS-CoV-2 infection with low neutralizing antibodies](#). Journal of Medical Virology. 2022 Dec 2; 95: Article number e28370.

Institute of Molecular and Genomic Medicine

1. Yang, HJ; Asakawa, H; Li, FA; Haraguchi, T; Shih, HM; Hiraoka, Y. [A nuclear pore complex-associated regulation of SUMOylation in meiosis](#). Genes to Cells. 2022 Dec 23; Article in Press.
2. Lin, HW; Chen, CC; Jhang, RY; Chen, L; de Belle, JS; Tully, T; Chiang, AS. [CREBB repression of protein synthesis in mushroom body gates long-term memory formation in Drosophila](#). Proceedings of the National Academy of Sciences of the United States of America. 2022 Dec 5; 119(50): Article number e2211308119.
3. Lin, SC; Liao, YC; Chen, PM; Yang, YY; Wang, YH; Tung, SL; Chuang, CM; Sung, YW; Jang, TH; Chuang, SE; Wang, LH. [Periostin promotes ovarian cancer metastasis by enhancing M2 macrophages and cancer-associated fibroblasts via integrin-mediated NF-kappaB and TGF-Beta2 signaling](#). Journal of Biomedical Science. 2022 Dec 22; 29: Article number 109.

Institute of Population Health Sciences

1. Wang, JS; Chin, MC; Chen, JF; Huang, CN; Hwu, CM; Ou, HY; Yang, YS; Hsu, CC; Wang, CY. [Trends in hospitalizations and emergency department visits among women with hyperglycemia in pregnancy between 2008 and 2017 in Taiwan](#). Frontiers in Endocrinology. 2022 Nov 24; 13: Article number 1005722.
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3. Zhang, HW; Tsai, ZR; Kok, VC; Peng, HC; Chen, YH; Tsai, JJP; Hsu, CY. [Long-term ambient hydrocarbon exposure and incidence of urinary bladder cancer](#). Scientific Reports. 2022 Dec 02; 12: Article number 20799.
4. Lin, YH; Lan, YT; Ho, YC; Chang, YH; Hsiung, CA; Chiou, HY. [The methodology to](#)

- [estimate the demand and supply of national psychiatric services in Taiwan from 2005 to 2030](#). Asian Journal of Psychiatry. 2023 Jan; 79: Article number 103393.
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 6. Tsai, MK; Gao, W; Chien, KL; Baw, CK; Hsu, CC; Wen, CP. [Associations of prolonged occupational sitting with the spectrum of kidney disease: Results from a cohort of a half-million Asian adults](#). Sports Medicine - Open. 2022 Dec 13; 8: Article number 147.
 7. Wu, SY; Lee, SC; Yeh, NH; Wang, CF; Hung, SY; Wu, SJ; Pan, WH. [Dietary characteristics of elders with frailty and with mild cognitive impairment: Cross-sectional findings and implications from the nutrition and health survey in Taiwan 2014-2017](#). Nutrients. 2022 Dec 7; 14(24): Article number 5216.
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 10. Pant, P; Anand, K; Onthoni, DD. [Secure information and data centres: An exploratory study](#). Studies in Computational Intelligence. 2023 Dec 02; 1065: 61-88.

National Center for Geriatrics and Welfare Research

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National Institute of Cancer Research

1. Ho, YC; Ku, CS; Tsai, SS; Shiu, JL; Jiang, YZ; Miriam, HE; Zhang, HW; Chen, YT; Chiu, WT; Chang, SB; Shen, CH; Myung, K; Chi, P; Liaw, H. [PARP1 recruits DNA translocases to restrain DNA replication and facilitate DNA repair](#). PLoS Genetics. 2022 Dec; 18(12): Article number e1010545.
2. Hsin, MC; Hsiao, YH; Chen, PN; Lin, CW; Wang, PH; Yang, SF; Lee, CY. [Dihydromyricetin inhibited migration and invasion by reducing S100A4 expression through ERK1/2/beta-catenin pathway in human cervical cancer cell lines](#). International Journal of Molecular Sciences. 2022 Dec 1; 23(23): Article number 15106.
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National Institute of Environmental Health Sciences

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National Institute of Infectious Diseases and Vaccinology

1. Liu, WD; Pang, MW; Wang, JT; Sun, HY; Huang, YS; Lin, KY; Wu, UI; Li, GC; Liu, WC; Su, YC; He, PC; Lin, CY; Yeh, CY; Cheng, YC; et al. [Evolution of anti-SARS-CoV-2 spike protein titers after two-dose of COVID-19 vaccination among people living with HIV](#). Journal of Virus Eradication. 2022 Dec; 8(4): Article number 100308.
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4. Shen, KY; Yang, CH; Chen, CT; Ho, HM; Chiu, FF; Huang, CY; Liao, HC; Hsu, CW; Yu, GY; Liao, CL; Chen, HW; Huang, MH; Liu, SJ. [Omicron-specific mRNA vaccine induced cross-protective immunity against ancestral SARS-CoV-2 infection with low neutralizing antibodies](#). Journal of Medical Virology. 2022 Dec 2; 95: Article number e28370.
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6. Wu, CC; Lee, TY; Cheng, YJ; Cho, DY; Chen, JY. [The dietary flavonol kaempferol inhibits epstein-barr virus reactivation in nasopharyngeal carcinoma cells](#). Molecules. 2022 Dec 23; 27(23): Article number 8158.

National Mosquito-Borne Diseases Control Research Center

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NHRI Graduate Student Program

1. Tu, KY; Huang, YS; Lau, J; Lee, HH. [Adaptive Tomotherapy for locally advanced unresectable pancreatic neuroendocrine tumor: Case report and literature review](#). *Frontiers in Oncology*. 2022 Nov 14; 12: Article number 1045752.
2. Chen, IC; Su, CY; Chen, PY; Hoang, TC; Tsou, YS; Fang, HW. [Investigation and characterization of factors affecting rheological properties of poloxamer-based thermo-sensitive hydrogel](#). *Polymers*. 2022 Dec 7; 14(24): Article number 5353.

Construction, Management & Service Center

1. Lee, YH; Chang, YP; Lee, JT; Lee, DC; Huang, EY; Lai, LT. [Heart rate variability as an indicator of the beneficial effects of Qigong and mindfulness training on the mind-body well-being of cancer survivors](#). *Supportive Care in Cancer* 2022 Dec 19; 31: Article number 59.