

YU-BAI CHOU

M . D . P H D



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PROFILE

Institution: Retina and Vitreous Section, Department of Ophthalmology, Taipei Veterans General Hospital
Address: No.201, Section 2, Shih-Pai Road Taipei, Taiwan, 11217

RESEARCH INTEREST

- Basic and clinical studies on surgical vitreo-retinal field.
- Design and development of new surgical device.
- Artificial intelligence in screening or diagnosis of retinal disease
- Development of an intraocular retinal prosthesis and instruments.
- Cataract Surgery and Intra-Ocular Lens Design
- Population-based study in Ophthalmology

CLINICAL TRAINING & EXPERIENCE

2024 Research fellowship in Ocular Oncology, Wills Eye Hospital
2023 Observership for Ocular Oncology in Royal Liverpool University Hospital
2021 Silver Award of Vitreoretinal Surgery from Taiwan Retina Society
2019 Invited Demonstrator for Cataract Live Surgery at Taiwan Ophthalmology Society Conference
2017-now Team member of Argus II retina prosthesis implantation, Taipei Veterans General Hospital
2017-now Attending Physician of Retina and Vitreous Section, Department of Ophthalmology, Taipei Veterans General Hospital
2015-2017 Clinical Fellow of Retinal and Vitreous Section, Department of Ophthalmology, Taipei Veterans General Hospital
2011-2015 Resident of Department of Ophthalmology, Taipei Veterans General Hospital

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BOARD CERTIFICATIONS & MEDICAL LICENSURE

Board Certification of the Ophthalmology Society, Taiwan

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- Basic and clinical studies on surgical vitreo-retinal field.
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PUBLICATION

- Association between renal function and the Treatment of Diabetic Macular Edema in Long-Term Cohort Study. Yu-Bai Chou, Jin-Yu Chang, Yiing-Jenq Chou , Christy Pu. Sci Rep. 2024 Oct 30;14(1):26098.
- Comparing efficacy of charged-particle therapy with brachytherapy in treatment of uveal melanoma. Yu-Hsuan Tseng, Chia-An Hsu, Yu-Bai Chou, M.D. Eye (Lond) 2024 Jul;38(10):1882-1890.
- Risk Factors for Developing Neovascular Glaucoma in Central Retinal Vein Occlusion: Two-Year Real-World Study. Ophthalmic Epidemiology 2024 July; 1-9. doi: 10.1080/09286586.2024.2370260.
- Efficiency and Safety of Internal Limiting Membrane Peeling with Different Forceps for Macular Disease. Chang, Hsin-Ho MD; Chen, Shih-Jen MD, PhD; Hsu, Chia-An MD; Chou, Yu-Bai MD. Retina 2023 November; 10.1097 .

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PUBLICATION

- Current status and practical considerations of artificial intelligence use in screening and diagnosing retinal diseases: Vision Academy retinal expert consensus. Yu-Bai Chou, Aditya U Kale, Paolo Lanzetta et al. Current Opinion of Ophthalmology. 2023 Sep 1;34(5):403-413. doi:10.1097/ICU.0000000000000979.
- Refractive status, biometric components, and functional outcomes of patients with threshold retinopathy of prematurity: systemic review and a 17-year longitudinal study. Yu-Bai Chou, An-Guor Wang, Hsin-Yu Yang, Chang-Sue Yang. Graefe's Archive for Clinical and Experimental Ophthalmology. 2022 Dec;260(12):3809-3816. doi: 10.1007/s00417-022-05730-6.
- Evaluation of a Remote Telemedicine Platform Using a Novel Handheld Fundus Camera: Physician and Patient Perceptions from Real-world Experience. Tsai-Chu Yeh, Wen-Jung Lo, Wen-Jung Lo, De-Kuang Hwang, Yu-Bai Chou. Journal of the Chinese Medical Association. 2022 Jul 1;85(7):793-798.
- Prediction of treatment outcome in neovascular age-related macular degeneration using a novel convolutional neural network. Tsai-Chu Yeh, AnChun Luo, Yu-Shan Deng, Yu-Bai Chou. Scientific reports. 2022 Apr 7;12(1):5871
- Retinal Microvascular Changes in Mild Cognitive Impairment and Alzheimer's Disease: A Systematic Review, Meta-Analysis, and Meta-Regression. Tsai-Chu Yeh, Chun-Tung Kuo, Yu-Bai Chou. Frontiers in Aging Neuroscience. 2022 Apr 28;14:860759. doi: 10.3389/fnagi.2022.860759.
- Comparison of Efficacy between Non-Steroidal Anti-Inflammatory Drugs and Anti-Vascular Endothelial Growth Factor in Preventing Macular Edema after Cataract Surgery in Diabetic Patients. Chia-An Hsu, Sheng-Chu Chi, Yu-Bai Chou. Journal of Personalized Medicine Feb 2022; 12(3):351.

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PUBLICATION

- Deep learning and ensemble stacking technique for differentiating polypoidal choroidal vasculopathy from neovascular age-related macular degeneration. YuBai Chou, Chung-Hsuan Hsu, Wei-Shiang Chen, Shih-Jen Chen, De-Kuang Hwang, Yi-Ming Huang, An-Fei Li & Henry Horng-Shing Lu. Scientific Reports. Sci Rep . 2021 Mar 30;11(1):7130. doi: 10.1038/s41598-021-86526-2.
- Identification of Novel Genomic-Variant Patterns of OR56A5, OR52L1, and CTSD in Retinitis Pigmentosa Patients by Whole-Exome Sequencing. Ting-Yi Lin, YunChia Chang, Yu-Jer Hsiao, Yueh Chien, Ying-Chun Jheng, Jing-Rong Wu, Lo-Jei Ching, De-Kuang Hwang, Chih-Chien Hsu, Tai-Chi Lin, Yu-Bai Chou, Yi-Ming Huang, Shih-Jen Chen, Yi-Ping Yang, Ping-Hsing Tsai. International Journal of Molecular Sciences. 2021; 25; 22(11):5594
- An Update on Gene Therapy for Inherited Retinal Dystrophy: Experience in Leber Congenital Amaurosis Clinical Trials. Wei Chiu, Ting-Yi Lin, Yun-Chia Chang, Henkie Isahwan-Ahmad Mulyadi Lai, Shen-Che Lin, Chun Ma, Aliaksandr A Yarmishyn, Shiuan-Chen Lin, Kao-Jung Chang, Yu-Bai Chou, Chih-Chien Hsu, TaiChi Lin, Shih-Jen Chen, Yueh Chien, Yi-Ping Yang, De-Kuang Hwang. International Journal of Molecular Sciences 2021; 26;22(9):4534.
- Mitochondrial transport mediates survival of retinal ganglion cells in affected LHON patients. Yang TC, Yarmishyn AA, Yang YP, Lu PC, Chou SJ, Wang ML, Lin TC, Hwang DK, Chou YB, Chen SJ, Yu WK, Wang AG, Hsu CC, Chiou SH. Hum Mol Genet. 2020 Jun 3;29(9):1454-1464. doi: 10.1093/hmg/ddaa063.
- Delayed branch retinal artery occlusion in infectious endocarditis. Lo KJ, Lin YC, Li HY, Chou YB. J Formos Med Assoc. 2020 Jul;119(7):1232-1233. doi: 10.1016/j.jfma.2019.10.015. Epub 2019 Nov 2.

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- The era of artificial intelligence-based individualized telemedicine is coming. Jheng YC, Kao CL, Yarmishyn AA, Chou YB, Hsu CC, Lin TC, Hu HK, Ho TK, Chen PY, Kao ZK, Chen SJ, Hwang DK. J Chin Med Assoc. 2020 Nov;83(11):981-983. doi: 10.1097/JCMA.0000000000000374.
- . Optical coherence tomography-based diabetic macula edema screening with artificial intelligence.Hwang DK, Chou YB, Lin TC, Yang HY, Kao ZK, Kao CL, Yang YP, Chen SJ, Hsu CC, Jheng YC.J Chin Med Assoc. 2020 Nov;83(11):1034-1038. doi: 10.1097/JCMA.0000000000000351.
- A novelty route for smartphone-based artificial intelligence approach to ophthalmic screening.Jheng YC, Chou YB, Kao CL, Yarmishyn AA, Hsu CC, Lin TC, Chen PY, Kao ZK, Chen SJ, Hwang DK.J Chin Med Assoc. 2020 Oct;83(10):898- 899. doi: 10.1097/JCMA.0000000000000369.
- Inner Nuclear Layer Microcyst Configuration, Distribution, and Visual Prognosis in Patients With Epiretinal Membrane After Vitrectomy and Membrane Peeling. Ming-Hung Hsieh, Yu-Bai Chou, Yi-Ming Huang, De-Kuang Hwang, Fang-Yi Tsai & Shih-Jen Chen. Scientific Reports. 9: 11570 (2019)
- Priority options of anti-vascular endothelial growth factor agents in wet age-related macular degeneration under the National Health Insurance Program. Yu-Bai Chou, Meng-Jou Chen, Tai-Chi Lin, Shih-Jen Chen,De-Kuang Hwang. Journal of the Chinese Medical Association. August 2019 - Volume 82 - Issue 8 - p 659–664.
- Value of lipid layer thickness and blinking pattern in approaching patients with dry eye symptoms. Yu-Bai Chou, MD, Nai-Wen Fan, Pei-Yu Lin. Can J Ophthalmol. 2019 Dec;54(6):735-740. doi: 10.1016/j.jcjo.2019.03.005. Epub 2019 Apr 30.

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- Characterization and functional correlation of multiple imaging modalities with focal choroidal excavation. Yun-Chen Chen, Yu-Bai Chou, Cheng-Kuan Lin, ChiaChenTsai, Tsui-Kang Hsu, Yu-Fan Chang, Hsiao-Ming Chao, Tao-HsinTung, ShihJen Chen, Jorn-Hon Liu. Journal of the Chinese Medical Association Volume 81, Issue 5, May 2018, Pages 487-495.
- Combination therapy with intravitreal bevacizumab and macular grid and scatter laser photocoagulation in patients with macular edema secondary to branch retinal vein occlusion. Yang CS1, Liu JH, Chung YC, Chou YB, Hung KH. J Ocul Pharmacol Ther. 2015 Apr;31(3):179-85.
- A novel view of punctate inner choroidopathy: Characterizing the serial changes by high resolution spectrum-domain optical coherence tomography. Yu-Bai Chou, Yu-Chien Chung, Shih-Jen Chen, Fenq-Lih Lee, Chang-SueYang. Taiwan Journal of Ophthalmology 2014;4;4:179-183