

No.	Category	Abstract title	First Author	Affiliation	Presenter (if different from First author)	Presenter Affiliation (if different from First author)	Country
P-1	Retina / Vitreous / Uvea Medical	Seasonal variation and gender differences in submacular hemorrhages caused by retinal macroaneurysms and age-related macular degeneration	Hiroki Kaneko	Department of Ophthalmology, Nagoya University Graduate School of Medicine			Japan
P-2	Retina / Vitreous / Uvea Medical	A potential therapeutic option in Age-Related Macular Degeneration: Complement Inhibitors	Shuqi Qin	Beijing Friendship Hospital Affiliated to the Capital University of Medical Sciences	Yanling Wang	Beijing Friendship Hospital Affiliated to the Capital University of Medical Sciences	China
P-3	Retina / Vitreous / Uvea Medical	Role of IL-4 in choroidal pathology of exudative AMD	Takashi Baba	Division of Ophthalmology and Visual Science, Tottori University Faculty of Medicine			Japan
P-4	Retina / Vitreous / Uvea Medical	Classifying Neovascular Age-related Macular Degeneration with a Deep Convolutional Neural Network based on Optical Coherence Tomography Images	Daniel Duck-Jin Hwang	Department of Ophthalmology, Hangeil Eye Hospital			Korea
P-5	Retina / Vitreous / Uvea Medical	Influence of vitreomacular interface on anti-vascular endothelial growth factor treatment outcomes in neovascular age-related macular degeneration	Meng Gao	Affiliated Hospital of Weifang Medical University			China
P-6	Retina / Vitreous / Uvea Medical	Refractive error, axial length and risk of age-related macular degeneration	Hae Rang Kim	Department of Ophthalmology, Severance Hospital, Yonsei University College of Medicine			Korea
P-7	Retina / Vitreous / Uvea Medical	The association between circulating neutrophil extracellular trap related biomarkers and retinal vein occlusion incidence	Wencui Wan	The first affiliated hospital of Zhengzhou University			China
P-8	Retina / Vitreous / Uvea Medical	Obstructive Sleep Apnea is Related with the Risk of Retinal Vein Occlusion	Wencui Wan	The first affiliated hospital of Zhengzhou University			China
P-9	Retina / Vitreous / Uvea Medical	Outcomes of eyes lost to follow-up in patients with central retinal vein occlusion receiving anti-vascular endothelial growth factor treatment	Han Zhang	Department of Ophthalmology, The First Hospital of China Medical University			China
P-10	Retina / Vitreous / Uvea Medical	Characteristics of collateral circulation after retinal vein occlusion after anti VEGF therapy	Renyan Wang	Beijing Tsinghua Changgung Hospital, School of Clinical Medicine, Tsinghua University			China
P-11	Retina / Vitreous / Uvea Medical	Choroidal watershed zone topography and its relationship with maculopathy in highly myopic eyes	Jiao Sun	Beijing Friendship Hospital, Capital Medical University			China
P-12	Retina / Vitreous / Uvea Medical	A New Physical Sign of Pathological Myopia: Myopia Scleral Pit	Zongming Song	Henan Eye Hospital, Henan Eye Institute, Henan Provincial People's Hospital and People's Hospital of Zhengzhou University			China
P-13	Retina / Vitreous / Uvea Medical	OCT report of peripheral white spots in Sarcoidosis and Vogt-Koyanagi-Harada disease	Akira Hayashida	Kyushu Univ			Japan
P-14	Retina / Vitreous / Uvea Medical	Choroidal Structure Changes and Choroidal Biomarkers in Healthy People	Zhuohua Zhou	Beijing Friendship Hospital, Capital Medical University	Shuang Li	Beijing Friendship Hospital, Capital Medical University	China
P-15	Retina / Vitreous / Uvea Medical	SD-OCT study of retinal morphological changes in patients with Parkinson's disease in different clinical stages	Huang Jiang	Second affiliated hospital of Soochow University			China
P-16	Retina / Vitreous / Uvea Medical	En face image-based classification of diabetic macular edema: imaging analysis using swept source optical coherence tomography	Yuki Kanzaki	Okayama University			Japan
P-17	Retina / Vitreous / Uvea Medical	Three-Dimensional Volume Calculation of Intrachoroidal Cavitation Using Deep-Learning-Based Enhancement of Optical Coherence Tomography	Satoko Fujimoto	Hawaii Macula and Retina Institute			United States
P-18	Retina / Vitreous / Uvea Medical	High resolution image analysis reveals decrease of lens thickness and cone density in a cohort of young myopic patients	Xiaoyu Xin	Henan Eye Hospital			China
P-19	Retina / Vitreous / Uvea Medical	Effects of the COVID-19 pandemic on anti-vascular endothelial growth factor treatment in China	Han Zhang	Department of Ophthalmology, The First Hospital of China Medical University			China
P-20	Retina / Vitreous / Uvea Medical	Effect of intravitreal ranibizumab and aflibercept injections on retinal nerve fiber layer thickness	Zeeyoon Byun	HanGil eye hospital			Korea

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P-21	Retina / Vitreous / Uvea Medical	Evaluation of the safety of Bilateral Same-Day Intravitreal injections of Anti-Vascular Endothelial Growth Factor Agents	A Young Lee	Hangil Eye Hospital			Korea
P-22	Retina / Vitreous / Uvea Medical	Incidence and Risk factors of Cardiovascular Disease in Patients with Intraoperative Hypertension	Yuto Yoshida	Juntendo University			Japan
P-23	Retina / Vitreous / Uvea Medical	Recurrent Retinal Hemorrhage by the same Retinal Arterial Macroaneurysm	Shuai Sheng	Zhengda Guangming Weifang Eye Hospital			China
P-24	Retina / Vitreous / Uvea Medical	Progression of Bilateral Morning Glory Syndrome associated with Unilateral PersistentFetal Vasculature: A case report of Long term follow-upinan Infant	Hongyun Ran	Weifang Eye Hospital			China
P-25	Retina / Vitreous / Uvea Medical	A case report intravitreal tissue plasminogen activator injection for trreatment-resistant diabetic macular edema of the vitrectomized eye	Ren Aoki	Yamaguchi Unversity			Japan
P-26	Retina / Vitreous / Uvea Medical	A Case Discussion of Binocular Nonarteritic Ischemic Optic Neuropathy	Zhuohua Zhou	Beijing Friendship Hospital, Capital Medical University			China
P-27	Retina / Vitreous / Uvea Medical	A Case of Ocular Toxoomiasis Misdiagnosed as Acute Retinal Necrosis Syndrome	Luan Fuxiao	Department of Ophthalmology, Beijing Chaoyang Hospital, Capital Medical University			China
P-28	Retina / Vitreous / Uvea Medical	Diagnosis of primary vitreous retinal lymphoma following initial identification of choroidal neovascularization	Shuai Sheng	Zhengda Guangming Weifang Eye Hospital			China
P-29	Retina / Vitreous / Uvea Medical	Presumed unilateral retinal pigment epithelium dysgenesis mimicking combined hamartoma of the retina and RPE in a eye	XUHUI YU	Eye Hospital, the First Affiliated Hospital of Harbin Medical University			China
P-30	Retina / Vitreous / Uvea Medical	Clinicopathological analysis of secondary retinal vasoproliferative tumor obtained by endoresection	Izumi Hashimoto	Department of Ophthalmology & Visual Science, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University			Japan
P-31	Retina / Vitreous / Uvea Medical	RETINAL VASCULAR PROLIFERATIVE TUMOR CASES: (VPYR)	Chen Chen	Department of Ophthalmology, First Hospital affiliated with Harbin University			China
P-32	Retina / Vitreous / Uvea Medical	A case of impending central retinal vein occlusion associated with neuroretinitis caused by Satoyoshi syndrome	Yoshinari Saima	Saitama Medical Center Jichi Medical University			Japan
P-33	Retina / Vitreous / Uvea Medical	Risk factors for the long term prognosis and recurrence of HIV-negative Cytomegalovirus Retinitis in North China	Yanhong Shi	Department of Ophthalmology, Beijing Chaoyang Hospital ,Capital Medical University			China
P-34	Retina / Vitreous / Uvea Medical	Non-rhegmatogenous retinal detachment associated with granulomatosis with polyangiitis - a case report	Keigo Sugisawa	Tokyo Metropolitan Cancer and Infectious Diseases Center Komagome Hospital			Japan
P-35	Retina / Vitreous / Uvea Medical	A case of ocular tuberculosis presenting paradoxical worsening after treatments	Yo Ogino	Department of Ophthalmology, Faculty of Medicine and Graduate School of Medicine Hokkaido University			Japan
P-36	Retina / Vitreous / Uvea Medical	A case of progressive outer retinal necrosis-like condition caused by varicella zoster virus in a patient's eye after cytomegalovirus retinitis	Hiroaki Ushida	Department of Ophthalmology, Nagoya University Graduate School of Medicine			Japan
P-37	Retina / Vitreous / Uvea Medical	Characterization of Macular Neovascularization in Bietti's Crystalline Dystrophy Using Multimodal Imaging Modalities	Qian Li	Beijing Tongren Eye Center			China
P-38	Retina / Vitreous / Uvea Medical	Genetic and Clinical features of <i>RHO</i> -related Retinitis Pigmentosa in Japanese patients	Saki Tsutsui	Department of Ophthalmology, Graduate School of Medical Sciences, Kyushu University	Saki Tsutsui	Department of Ophthalmology, Graduate School of Medical Sciences, Kyushu University	Japan
P-39	Retina / Vitreous / Uvea Medical	Recurrence Rate of Cystoid Macular Edema with Topical Dorzolamide Treatment and its Risk Factors in Retinitis Pigmentosa	Shotaro Shimokawa	Kyushu University			Japan
P-40	Retina / Vitreous / Uvea Medical	The homing effect of SDF-1 in promoting the differentiation of human ADSC into retinal vascular endothelial cells	Guoxing Xu	Fujian Institute of Ophthalmology , The First Affiliated Hospital of Fujian Medical University			China

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P-41	Retina / Vitreous / Uvea Medical	Whole exome sequencing revealed three novel variants in <i>TSPAN12</i> and <i>LRP5</i> genes for two families with familial exudative vitreoretinopathy	Handong Dan	Henan Provincial People's Hospital, Henan Eye Hospital, Henan Eye Institute, People's Hospital of Zhengzhou University, People's Hospital of Henan University			China
P-42	Retina / Vitreous / Uvea Medical	Clinical and Molecular Genetics Research of a family with X-linked Juvenile Retinoschisis	Tingting Wang	Department of Ophthalmology and Optometry, School of Medical Technology and Engineering, Fujian Medical University	Yihua Zhu	Department of Ophthalmology, The First Affiliated Hospital of Fujian Medical University	China
P-43	Retina / Vitreous / Uvea Medical	Clinical and genetic characteristics of Stargardt disease in a large Western China cohort	Liu Xiao	Army Medical University Southwest Eye Hospital			China
P-44	Retina / Vitreous / Uvea Medical	Macular Microvascular Findings in Familial Exudative Vitreoretinopathy on Optical Coherence Tomography Angiography	Wenting Wang	Weifang Eye Hospital			China
P-45	Retina / Vitreous / Uvea Medical	Changes of Retinal vessels in OCT angiography of the non-surgical eye in patients with vitreoretinal surgery under General anesthesia	Heeyoon Cho	Hanyang University			Korea
P-46	Retina / Vitreous / Uvea Medical	Macular Microvascular Changes on Optical Coherence Tomography Angiography after Panretinal Photocoagulation for Diabetic Retinopathy	Ken Hoshiyama	Department of Ophthalmology, Shinshu University School of Medicine			Japan
P-47	Retina / Vitreous / Uvea Surgical	Postoperative Myopic Shift In Eyes After Phacovitrectomy For Retinal Vascular Diseases Or Vitreomacular Interface Diseases	Tiezhu Lin	He Eye Specialist Hospital			China
P-48	Retina / Vitreous / Uvea Surgical	A new treatment method for hemorrhagic retinal detachment by drainage sclerotomy combined with subretinal and submacular injections of tPA	Yong Wei	The Eye Hospital of Wenzhou Medical University			China
P-49	Retina / Vitreous / Uvea Surgical	Lyophilized amniotic membrane patch combined with autologous blood covering in the treatment of refractory macular hole	Yong Wei	The Eye Hospital of Wenzhou Medical University			China
P-50	Retina / Vitreous / Uvea Surgical	Treatment of Subretinal Hemorrhage with Recombinant Human TNK tissue-type Plasminogen Activator: a case report	Wenting Wang	Weifang Eye Hospital			China
P-51	Retina / Vitreous / Uvea Surgical	Management of Vasoproliferative Tumors of the Retina with Macular Complications by Pars Plana Vitrectomy Combined with Episcleral Cryotherapy	Zongming Song	Henan Eye Hospital, Henan Eye Institute, Henan Provincial People's Hospital and People's Hospital of Zhengzhou University			China
P-52	Retina / Vitreous / Uvea Surgical	Pathogenesis and Treatment of Macular Hole after Cataract Surgery	Zhuohua Zhou	Beijing Friendship Hospital, Capital Medical University			China
P-53	Retina / Vitreous / Uvea Surgical	Microvascular Leakage is a Poor Prognostic Factor for Idiopathic Epiretinal Membrane: A Fluorescein Angiography Study	Iksoo Byon	Pusan National University Hospital			Korea
P-54	Retina / Vitreous / Uvea Surgical	Delayed endophthalmitis of <i>Stenotrophomonas maltophilia</i> after penetrating ocular trauma	Shuai Sheng	Zhengda Guangming Weifang Eye Hospital			China
P-55	Retina / Vitreous / Uvea Surgical	Case series: two cases of severe retinal cicatricial contraction after vitrectomy for open-globe injury in patients with skin keloid.	Yan Hua	Tianjin Medical University General Hospital			China
P-56	Retina / Vitreous / Uvea Surgical	Characteristics and outcomes of vitrectomy for proliferative diabetic retinopathy in young versus senior patients	Yan Hua	Tianjin Medical University General Hospital			China
P-57	Retina / Vitreous / Uvea Surgical	Development of choroidal neovascularization following successful autologous retinal transplantation for large refractory macular hole coexisting : a case report	XUHUI YU	Eye Hospital, the First Affiliated Hospital of Harbin Medical University			China
P-58	Retina / Vitreous / Uvea Surgical	The different surgery for the different retinal detachment	Sun Dawei	The Second Affiliated Hospital of Harbin Medical University			China
P-59	Retina / Vitreous / Uvea Surgical	Autologous neurosensory retinal free flap transplantation for the treatment of traumatic posterior pole retinal tear retinal detachment	XUHUI YU	Eye Hospital, the First Affiliated Hospital of Harbin Medical University			China
P-60	Retina / Vitreous / Uvea Surgical	Clinical evaluation of a new monofocal intraocular lens in combined cataract and vitreoretinal surgery	Inboem Chang	Kim Kisoo Soo Eye Clinic			Korea

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P-61	Retina / Vitreous / Uvea Surgical	Clinical Characteristics and Visual Prognosis of Open Globe Injuries in a Tertiary Institute in Japan	Tomoyuki Oga	Kindai University			Japan
P-62	Retina / Vitreous / Uvea Surgical	Retinal displacement and intraretinal structural changes after idiopathic macular hole surgery	Asuka Takeyama	Toho University Ohashi Medical Center			Japan
P-63	Retina / Vitreous / Uvea Surgical	A Case Report of Rhegmatogenous Retinal Detachment Combined with Gaucher Disease	Wang Biying	Ophthalmology Branch of the First Affiliated Hospital of Harbin Medical University			China
P-64	Retina / Vitreous / Uvea Surgical	Recurrent proliferative vitreoretinopathy caused by excessive head shaking in a patient with morning glory syndrome	Tomoko Sato	Department of Ophthalmology Kindai University Faculty of Medicine			Japan
P-65	Retina / Vitreous / Uvea Surgical	Clinical Manifestations and Laboratory Test Results of Herpetic Anterior Uveitis	Yong Tao	Department of Ophthalmology, Beijing Chaoyang Hospital, Capital Medical University			China
P-66	Retina / Vitreous / Uvea Surgical	Effects of Liposome-encapsulated Ripasudil on Proliferative Vitreoretinopathy	Rui Ji	Kyushu university			Japan
P-67	Retina / Vitreous / Uvea Surgical	Genotype and phenotype of X-linked CACNA1F related nystagmus	PING WANG	Jinan Pure Eye Hospital			China
P-68	Retina / Vitreous / Uvea Surgical	Erythropoietin silencing as an alternative treatment approach against choroidal neovascularization	Wen Chen	Joint Shantou International Eye Center of Shantou University and the Chinese University of Hong Kong			China
P-69	Retina / Vitreous / Uvea Surgical	Characteristics of Cellular Infiltration into Posterior Vitreous on Optical Coherence Tomography in Eyes with Uveitis	Wataru Matsumiya	Department of Surgery, Division of Ophthalmology, Kobe University Graduate School of Medicine			Japan
P-70	Retina / Vitreous / Uvea Surgical	The role of intravitreal anti-VEGF agents in rabbit eye model of open globe injury	Yan Hua	Tianjin Medical University General Hospital	Xiao Zhao	Tianjin Medical University General Hospital	China
P-71	Retina / Vitreous / Uvea Surgical	Activated Blood Coagulation Factor X (FXa) Contributes to the Development of Traumatic PVR Through Promoting RPE Epithelial-Mesenchymal Transition	Yan Hua	Tianjin Medical University General Hospital	Han Han	Tianjin Medical University General Hospital	China
P-72	Retina / Vitreous / Uvea Surgical	The protective effect of BMSCs on hydrogenperoxideinduced retinal ganglion cells injury	Guoxing Xu	Fujian Institute of Ophthalmology , The First Affiliated Hospital of Fujian Medical University			China
P-73	Retina / Vitreous / Uvea Surgical	Effect of curcumin through NLRP3-inflammasome pathway inhibition on oxidative stress-injured retinal pigment epithelial cells.	Hyo Seon Yu	Department of Ophthalmology, Hanyang University College of Medicine			Korea
P-74	Retina / Vitreous / Uvea Surgical	Clinical characteristics and nanopore sequencing results of 18 patients with endogenous endophthalmitis	Xinlei Hao	Eye Center, Renmin Hospital of Wuhan University			China
P-75	Retina / Vitreous / Uvea Surgical	Association between ocular ischemic syndrome and ischemic stroke	Li Man	Beijing Friendship Hospital, Capital Medical University,			China
P-217	Retina / Vitreous / Uvea Surgical	Internal Limiting Membrane Defect associated with Epiretinal Membrane	Yuichiro Ishida	Aichi Medical University		Aichi Medical University	Japan
P-218	Retina / Vitreous / Uvea Surgical	Cryotherapy and silicone oil tamponade for ciliary body detachment during intraocular lens intrascleral fixation	Keita Baba	Department of Ophthalmology, Aichi Medical University		Department of Ophthalmology, Aichi Medical University	Japan
P-219	Retina / Vitreous / Uvea Surgical	Neovascular Changes after Preoperative Intravitreal Bevacizumab Injection for Proliferative Diabetic Retinopathy	Mizuki Hamada	Department of Ophthalmology, Aichi Medical University		Department of Ophthalmology, Aichi Medical University	Japan
P-76	Strabismus / Pediatric ophthalmology	Ocular findings in Two Chinese Children with Loews-Dietz Syndrome	wenting wang	Weifang Eye Hospital			China
P-77	Strabismus / Pediatric ophthalmology	Bilateral Inferior Rectus Hypoplasia with Congenital Muscular Torticollis	Liu Nan	Weifang Eye Hospital	Nan Liu	Weifang Eye Hospital	China



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P-78	Strabismus / Pediatric ophthalmology	Association between Fundus Characteristics and Longitudinal Visual Development in Children with Myelinated Retinal Nerve Fibers	Jinyun Jiang	State Key Laboratory of Ophthalmology, Zhongshan Ophthalmic Center, Sun Yat-sen University			China
P-79	Strabismus / Pediatric ophthalmology	Phenotype and genotype of infantile nystagmus syndrome	PING WANG	Jinan Pure Eye Hospital			China
P-80	Strabismus / Pediatric ophthalmology	Quantitative measurement of passive duction force tension in intermittent exotropia and its clinical implications	Hyunjin Shin	Konkuk University			Korea
P-81	Strabismus / Pediatric ophthalmology	Introduction of a novel device for forced duction test and measurement of passive tension in intermittent exotropia patients	Jae Yun Sung	Department of Ophthalmology, Chungnam National University Sejong Hospital			Korea
P-82	Strabismus / Pediatric ophthalmology	Objective analysis of reading ability using an eye tracker in intermittent exotropia	Dong Hyun Kim	Department of Ophthalmology, Seoul National University College of Medicine, Seoul National University Bundang Hospital			Korea
P-83	Low vision / Epidemiology	Epidemiological Characteristics of Ocular Trauma in Chinese Children	Wenting Wang	Weifang Eye Hospital			China
P-84	Low vision / Epidemiology	Association of blepharoptosis with refractive error in the Korean general population	Hyun Chul Youn	Department of Ophthalmology, Ulsan University Hospital, University of Ulsan College of Medicine	Ju-Hyang Lee	Department of Ophthalmology, Ulsan University Hospital, University of Ulsan College of Medicine	Korea
P-85	Low vision / Epidemiology	A Cross-sectional Study of Primary School Students Myopia of Hohhot	Ming-shen MA	Affiliated Hospital of Inner Mongolia Medical University			China
P-86	Low vision / Epidemiology	Efficacy of MP-3 microperimeter biofeedback fixation training for low vision rehabilitation in patients with maculopathy	Suqin Yu	Department of Ophthalmology, Shanghai General Hospital			China
P-87	Low vision / Epidemiology	Causes and outcome of monocular blindness analysis of 1009 patients in a single ophthalmic center of northwest china	Jiao Jiao Liang	Shaanxi Eye Hospital			China
P-88	Low vision / Epidemiology	Visual impairment increases the risk of dementia, especially in young males in a 12-year longitudinal follow-up study of national cohort	Dong Hui Lim	Samsung Medical Center	Eunhae Shin	Samsung Medical Center	Korea
P-89	Low vision / Epidemiology	A novel head-mounted eye-tracking display can be a useful tool for screening cognitive impairment	Eri Nakano	department of ophthalmology and visual sciences, Kyoto university			Japan
P-90	Cornea / Ocular Surface	CHST6-related macular corneal dystrophy: a matter of endothelium	Bining Zhang	Shandong Eye Institute			China
P-91	Cornea / Ocular Surface	Comparison of mean corneal power of annular rings and zones using swept-source optical coherence tomography	Wang Xiaogang	Shanxi Eye Hospital			China
P-92	Cornea / Ocular Surface	Risk factors for band keratopathy in aphakic eyes with silicone oil tamponade for open-globe injuries a multicenter case-control study	Yan Hua	Tianjin Medical University General Hospital			China
P-93	Cornea / Ocular Surface	Experimental research of dual-use artificial implants for the treatment of bullous keratopathy	Yifan Fang	PLA General Hospital			China
P-94	Cornea / Ocular Surface	Expression of TNFAIP3 in mouse ocular surface and its influence on allergic conjunctivitis	KUNKE LI	Shenzhen Eye Hospital			China
P-95	Cornea / Ocular Surface	Trehalose induces autophagy against inflammation by activating TFEB signaling pathway in human corneal epithelial cells exposed to hyperosmotic stress	Zhao Liu	The First Affiliated Hospital of Xi'an Jiaotong University			China
P-96	Cornea / Ocular Surface	Construction of tissue engineered conjunctiva with crosslinked modified decellularized rabbit conjunctival stroma	Fangyuan Chen	The Department of Ophthalmology, The First Affiliated Hospital, Jinan University			China
P-97	Cornea / Ocular Surface	Wedelolactone ameliorates Pseudomonas aeruginosa-induced inflammation and corneal injury by suppressing caspase-4/5/11/GSDMD-mediated non-canonical pyroptosis	Shuo Xu	The Affiliated Wuxi No.2 People's Hospital of Nanjing Medical University			China

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P-98	Cornea / Ocular Surface	Clinical Outcomes of Minimally Invasive Corneal Neurotization after Cerebellopontine Angle (CPA) Neurosurgical Procedures	Jin Li	Department of Ophthalmology, Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine	Yue Wu	Department of Ophthalmology, Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine	China
P-99	Cornea / Ocular Surface	Limbic Niche Cells and Three-Dimensional Matrigel Induced Dedifferentiation of Mature Corneal Epithelial Cells	Li Guigang	Department of Ophthalmology, Tongji Hospital, Tongji Medical College, Huazhong University of Science and Technology			China
P-100	Cornea / Ocular Surface	Ocular Graft-versus-Host Disease is Associated with Reduced Sleep Quality in Patients after Hematopoietic Stem Cell Transplantation	Yinglin Liao	Zhongshan Ophthalmic Center, Sun Yat-sen University			China
P-101	Cornea / Ocular Surface	Treatment of dry eye signs and symptoms in type 2 diabetic with Diquafosol ophthalmic solution	Qing Zhang	He Eye Specialist Hospital			China
P-102	Cornea / Ocular Surface	Treating post-LASIK dry eye by combining intense pulsed light and heated eye mask	Yi Wu	He Eye Specialist Hospital / Dalian Medical University			China
P-103	Cornea / Ocular Surface	Corneal Nerve Structure and Function in Patients With Non-Sjogren Dry Eye: Clinical Correlations	Yuheng Zhang	Beijing Institute of Ophthalmology, Beijing Tongren Eye Center			China
P-104	Cornea / Ocular Surface	Clinical effect and safety of 3% Diquafosol ophthalmic solution for patient with dry eye after implantable collamer lens surgery	Zheng Qianyun	Nanning Aier Eye Hospital			China
P-105	Cornea / Ocular Surface	Acanthamoeba cysts May Mediate Corneal Inflammation Cell Trafficking: An In Vivo Confocal Microscopy Study	Qingfeng Liang	Beijing Institute of Ophthalmology, Beijing Tongren Eye Center, Beijing Tongren Hospital, Capital Medical University, Beijing Key Laboratory of Ophthalmology and Visual Sciences			China
P-106	Cornea / Ocular Surface	Corneal Epithelial Thickness as a Diagnostic and Staging Parameter for Limbal Stem Cell Deficiency	Qingfeng Liang	Beijing Institute of Ophthalmology, Beijing Tongren Eye Center, Beijing Tongren Hospital, Capital Medical University, Beijing Key Laboratory of Ophthalmology and Visual Sciences			China
P-107	Cornea / Ocular Surface	Corneal electrolysis for corneal dystrophies.	Tsubasa Nishino	Kanazawa University/ Toyama Prefectural Central Hospital			Japan
P-108	Cornea / Ocular Surface	Ripasudil eyedrops ameliorated bullous keratopathy with cytomegalovirus corneal endotheliitis: a case report	Masaaki Yoshida	Department of Ophthalmology, Tohoku University Graduate School of Medicine			Japan
P-109	Cornea / Ocular Surface	Epidemic keratoconjunctivitis caused by adenovirus can reduce uncorrected visual acuity in implantable collamer lens eyes due to vault change	Koichi Nishida	Department of Ophthalmology, Kindai University Faculty of Medicine			Japan
P-110	Cornea / Ocular Surface	Clinical characteristics of lacrimal duct disease-related corneal ulcer	HIDENORI INOUE	Ehime University, Department of Ophthalmology			Japan
P-111	Cornea / Ocular Surface	Deep anterior lamellar keratoplasty in patients with granular corneal dystrophy type 2 aggravated after LASIK	Koichiro Shinji	Department of Ophthalmology and Visual Science, Graduate School of Biomedical Sciences, Hiroshima University			Japan
P-112	Cornea / Ocular Surface	A case of ocular rosacea with specific corneal findings	Chika Kairada	Department of Ophthalmology, Faculty of Medicine, Fukuoka University			Japan
P-113	Cornea / Ocular Surface	Anti-CD80/86 antibodies suppress inflammatory reaction and improve grafts survival in a high-risk murine corneal transplantation model	Yasutsugu Akasaki	Juntendo University Graduate School of Medicine, Department of Ophthalmology			Japan
P-114	Cornea / Ocular Surface	Changes in ocular surface temperature and blood flow after Thermal Pulsation Treatment in patients with MGD	Takashi Itokawa	Toho University Omori Medical Center			Japan
P-115	Cornea / Ocular Surface	Comparison of the clinical characteristics between Ocular rosacea and Meibomitis-related Keratoconjunctivitis.	Akira Minamoto	Hiroshima University			Japan
P-116	Cornea / Ocular Surface	Stability of growth factors and sterility in platelet-rich plasma eye drops during refrigerated storage	Yuichi Okumura	Juntendo University			Japan
P-117	Cornea / Ocular Surface	Time dependent serial changes of dendritic cell subsets are distinct between the corneal sterile inflammation and allogeneic immunization	Mee Kum Kim	Ophthalmology, Seoul National University College of Medicine			Korea

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P-118	Cornea / Ocular Surface	Feasibility of conjunctival flap in management of infectious keratitis	Moon Su Young	Department of Ophthalmology, Asan Medical Center, University of Ulsan College of Medicine			Korea
P-119	Cornea / Ocular Surface	Efficacy and biocompatibility evaluation of artificial corneal transplantation in rabbit model	Sanghyu Nam	Department of Ophthalmology, University of Ulsan College of Medicine, Asan Medical Center			Korea
P-120	Cornea / Ocular Surface	Long-term clinical course and prognostic factors in patients with chronic ocular graft-versus-host disease	Hyeon-jeong Yoon	Chonnam National University and Hospital			Korea
P-121	Cornea / Ocular Surface	Incidence and Risk Factors of Hydroxychloroquine Retinopathy in rheumatic patients with ocular discomfort	Joon Ki Min	Department of Ophthalmology and Inha Vision Science Laboratory, Inha University School of Medicine			Korea
P-122	Cornea / Ocular Surface	Effect of Intense Pulsed Light Treatment Using an Acne Filter on Eyelid Margin Telangiectasia in Moderate-to-Severe Meibomian Gland Dysfunction	LEE HUN	Asan Medical Center, University of Ulsan College of Medicine	HUN LEE	Asan Medical Center, University of Ulsan College of Medicine	Korea
P-123	Cornea / Ocular Surface	Non-invasive high-contrast imaging of conjunctival goblet cells for the examination of ocular surface diseases	Chang Ho Yoon	Laboratory of Ocular Regenerative Medicine and Immunology, Biomedical Research Institute, Seoul National University Hospital			Korea
P-124	Cornea / Ocular Surface	Corneal lymphangiogenesis in dry eye disease is regulated by SP/NK-1 receptor system through controlling expression of VEGF receptor 3	Seok Jae Lee	Department of Biomedical Sciences, Seoul National University College of Medicine			Korea
P-125	Cornea / Ocular Surface	Factors associated with ocular surface epithelial damage in patients with primary Sjögren's syndrome	Jun Seob Lee	Department of Ophthalmology and Inha Vision Science Laboratory, Inha University School of Medicine			Korea
P-126	Cornea / Ocular Surface	Electro-thermal therapy for evaporative dry eye disease	Kyungsoo Park	Hanbit eye clinic			Korea
P-127	Ocular tumor / Oculoplasty	Hyaluronic Acid Injection to Correct Enophthalmos after Orbital Fracture.	Xueying Zeng	The Second Hospital of Dalian Medical University			China
P-128	Ocular tumor / Oculoplasty	Treatment of facial depressed scars by the injection of triamcinolone combined with hyaluronic acid.	Xueying Zeng	The Second Hospital of Dalian Medical University	Yang Li	The Second Hospital of Dalian Medical University	China
P-129	Ocular tumor / Oculoplasty	Clinical Analysis of the egg-shaped Bioceramic (Aluminum oxide) orbital implant.	Xueying Zeng	The Second Hospital of Dalian Medical University	Hetian Sun	The Second Hospital of Dalian Medical University	China
P-130	Ocular tumor / Oculoplasty	Modified levator muscle complex suspension on treating pediatric blepharoptosis with poor bell's phenomenon	Jin Li	Department of Ophthalmology, Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine	Rui Li	Department of Ophthalmology, Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine	China
P-131	Ocular tumor / Oculoplasty	Long-term Outcome and Predictors of Silicone Tube Intubation for Patients with Nasolacrimal Duct Obstruction	Eunjin Koh	Department of Ophthalmology, Ilsan Paik Hospital, Inje University College of Medicine			Korea
P-132	Ocular tumor / Oculoplasty	Mature teratoma of orbit in infant: a case report	Ming-shen MA	Affiliated Hospital of Inner Mongolia Medical University	Haixia ZHAO	Affiliated Hospital of Inner Mongolia Medical University	China
P-133	Ocular tumor / Oculoplasty	A case treated with surgical resection for intraorbital metastasis of a gastrointestinal stromal tumor that resists chemotherapy	Masanori Mikuni	Department of Ophthalmology, Yamaguchi University Graduate School of Medicine			Japan
P-134	Ocular tumor / Oculoplasty	The Effect of Surgical Resection Combined with Glucocorticoid on Benign Lymphoepithelial Lesions of Lacrimal Gland	Luan Fuxiao	Department of Ophthalmology, Beijing Chaoyang Hospital, Capital Medical University			China
P-135	Ocular tumor / Oculoplasty	Study on Clinical Manifestations and Imaging Characteristics for Benign Lymphoepithelial Lesions of Lacrimal Gland	Luan Fuxiao	Department of Ophthalmology, Beijing Chaoyang Hospital, Capital Medical University			China
P-136	Ocular tumor / Oculoplasty	An Overview of Clinical Research on Basal Cell Carcinoma	Qihan Guo	Beijing Tongren Hospital			China
P-137	Ocular tumor / Oculoplasty	The long-term outcome of retinoblastoma children with optic nerve involvement who underwent enucleation combined with stage I orbital implantation	Nan Wang	Beijing Tongren Hospital, Capital Medical University			China

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P-138	Ocular tumor / Oculoplasty	Characteristics and Treatment of Adult Orbital Xanthogranulomatous Disease	Ming Lin	Department of Ophthalmology, Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine	Jin Li	Department of Ophthalmology, Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine	China
P-139	Ocular tumor / Oculoplasty	Vitreoretinal lymphoma in young adults	Qing Chang	Shanghai Eye & ENT Hospital of Fudan University			China
P-140	Ocular tumor / Oculoplasty	p62/SQSTM1 analysis identifies prognostic markers in uveal melanoma with epithelioid cell type	Yu Mei Diao	Chinese PLA General Hospital			China
P-141	Ocular tumor / Oculoplasty	Clinical Application of ENOX2 Detection in the Diagnosis of Ocular Tumors	Jingxue Zhang	Beijing Institute of Ophthalmology			China
P-142	Ocular tumor / Oculoplasty	HDAC7 promotes cell proliferation and migration in choroidal melanoma cells via upregulating c-Myc	Jing Han	Department of Ophthalmology , Tangdu Hospital, Air Force Medical University			China
P-143	Glaucoma / Optic Nerve	T-type calcium channels contributes to retinal ganglion cell apoptosis in experimental glaucoma by enhancing Cav3.3 subunit	Hong-Ning Wang	Institutes of Brain Science, State Key Laboratory of Medical Neurobiology and MOE Frontiers Center for Brain Science, Fudan University			China
P-144	Glaucoma / Optic Nerve	"normal tension glaucoma"; really glaucoma?	Ning Fan	Shenzhen Eye Hospital, Jinan University			China
P-145	Glaucoma / Optic Nerve	The changes of angle structure after pupillary dilation in patients with a primary angle-closure suspect before and after cataract extraction	Jian Wu	Beijing Tongren Hospital, Capital Medical University			China
P-146	Glaucoma / Optic Nerve	Effect of refractive status on peripapillary retinal nerve fiber layer thickness in Chinese Population	Jian Wu	Beijing Tongren Hospital, Capital Medical University			China
P-147	Glaucoma / Optic Nerve	Association of axial length and lamina cribrosa parameters in glaucoma and its clinical significance	Jian Wu	Beijing Tongren Hospital, Capital Medical University			China
P-148	Glaucoma / Optic Nerve	The Effect of Ultrasound Cycloplasty Used in Chinese Refractory Glaucoma ----a short-term report	Lijun Cui	Department of Ophthalmology, the First Affiliated Hospital of Xi'an Jiaotong University			China
P-149	Glaucoma / Optic Nerve	Efficacy of phacoemulsification alone in chronic angle closure patients with extensive goniosynechia	Ronghua Qiao	Beijing Tsinghua Changgung Hospital			China
P-150	Glaucoma / Optic Nerve	New progresses of micro invasive glaucoma surgery	Yang Liu	Weifang Eye Hospital			China
P-151	Glaucoma / Optic Nerve	Clinical features of Takayasu arteritis related fundus changes	Lanting Wu	Beijing Friendship Hospital, Capital Medical University			China
P-152	Glaucoma / Optic Nerve	A novel homozygous missense mutation in <i>ADAMTS17</i> caused autosomal recessive inheritance Weill-Marchesani syndrome from a Chinese family	Mengjie Fan	The School of Medical Technology and Engineering ,Fujian Medical University			China
P-153	Glaucoma / Optic Nerve	Risk Factors and Pathogenesis of Diabetic Optic Neuropathy	pian pian Xiong	Beijing Friendship Hospital,Capital Medical University			China
P-154	Glaucoma / Optic Nerve	Investigation of hydrostatic pressure loading on 3D retinal organoids derived from human iPSCs	Wataru Kobayashi	Department of Ophthalmology, Tohoku University Graduate School of Medicine			Japan
P-155	Glaucoma / Optic Nerve	Characterization of Light Evoked Increases in Optic Nerve, Retinal and Choroidal Blood Flow Measured Simultaneously in Healthy and Glaucomatous eyes	Ryuya Hashimoto	Toho University Sakura Medical Center			Japan
P-156	Glaucoma / Optic Nerve	Trend analysis of visual field global index excluding consistently blind locations	Atsuya Miki	Osaka University			Japan
P-157	Glaucoma / Optic Nerve	The effect of brinzolamide/brimonidine fixed combination on patient satisfaction	Hieromitsu Onoe	Hiroshima University			Japan



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P-158	Glaucoma / Optic Nerve	Antioxidant supplementation reduces oxidative stress in patients with glaucoma	Noriko Himori	Department of Aging Vision Healthcare, Tohoku University Graduate School of Biomedical Engineering			Japan
P-159	Glaucoma / Optic Nerve	Clinical outcomes of patients with Axenfeld-Rieger Syndrome at Hiroshima University	Naoki Okada	Hiroshima University			Japan
P-160	Glaucoma / Optic Nerve	Treatment outcomes in open angle glaucoma Ex-PRESS implantation versus trabeculectomy study after 36-month Orient Ex-PRESS study	Kana Tokumo	Department of Ophthalmology and Visual Science, Graduate School of Biomedical Sciences, Hiroshima University			Japan
P-161	Glaucoma / Optic Nerve	A case of intraocular proliferative changes caused by a glaucoma tube device	Fumiya Miyako	Hiroshima University			Japan
P-162	Glaucoma / Optic Nerve	Effect of micro incision vitreous surgery for functional filtering bleb	Shunsuke Nakakura	Saneikai Tsukazaki Hospital			Japan
P-163	Glaucoma / Optic Nerve	Association of Progressive Optic Disc Tilt with Development of Retinal Nerve Fiber Layer Defect in Children with Large Cup-to-Disc Ratio	Ahnul Ha	Department of Ophthalmology, Jeju National University Hospital			Korea
P-164	Glaucoma / Optic Nerve	Intraocular Pressure According to Eye Gaze by iCare Rebound Tonometry in Normal Participants and Glaucoma Patients	Lee Won June	Hanyang University College of Medicine			Korea
P-165	Glaucoma / Optic Nerve	Clinical Outcomes after Second-generation Trabecular Microbypass Stents (iStent inject ®) with Phacoemulsification in Korean Patients	LIM SUHO	Daegu Veterans Health Service Medical Center			Korea
P-166	Cataract / Refractive Surgery	Changes of corneal parameters in different areas after cataract surgery	Mingming Liu	Weifang Eye Hospital			China
P-167	Cataract / Refractive Surgery	changes of corneal parameters at the pupil-centered and corneal apexcentered region after cataract surgery	Mingming Liu	Weifang Eye Hospital			China
P-168	Cataract / Refractive Surgery	Enterococcusfaecalis endophthalmitis after cataract surgery: a case report and literature review	Li Man	Beijing Friendship Hospital, Capital Medical University			China
P-169	Cataract / Refractive Surgery	Partial Wieger Zonular Detachment for High Myopia eyes After Cataract Surgery Using Swept-source Optical Coherence Tomogrphay	Wang Xiaogang	Shanxi Eye Hospital			China
P-170	Cataract / Refractive Surgery	High percentage difference of binocular intraocular lens power in short, normal, and long eyes	Wang Xiaogang	Shanxi Eye Hospital			China
P-171	Cataract / Refractive Surgery	The association and diagnostic performance of lens density in nuclear cataract quantified by IOLMaster 700 with lenticular myopia	Peirong Lu	The First Affiliated Hospital of Soochow University			China
P-172	Cataract / Refractive Surgery	The Correlation Between Ocular Parameters And Myopic Anisometropia In Adult	Zhang Huiqing	Guangdong Eye Institute, Guangdong Provincial Peoples Hospital	Zeng Jin	Guangdong Eye Institute, Guangdong Provincial Peoples Hospital	China
P-173	Cataract / Refractive Surgery	The shape changes of different IOLs implanted in the capsular bag and clinical significance	Xue Xie	Shaanxi Eye Hospital			China
P-174	Cataract / Refractive Surgery	Small Incision Lenticule Extraction in Myopic Eyes with Corectopia after Intraocular Lens Implantation	Yan Zhang	The Second Hospital of Jilin University			China
P-175	Cataract / Refractive Surgery	Variations in vivo corneal biomechanical response following 3 different forms of refractive surgery	FangJun Bao	Hangzhou Branch, Eye Hospital, Wenzhou Medical University			China
P-176	Cataract / Refractive Surgery	Correlation between preoperative biometric parameters and vault after ICL implantation	Xiyang Yang	Guangdong Provincial People's Hospital			China
P-177	Cataract / Refractive Surgery	The burgeoning role of long non-coding RNAs in cataract progression	Yan Hua	Tianjin Medical University General Hospital	Siyue Chen	Tianjin Medical University General Hospital	China

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P-178	Cataract / Refractive Surgery	Down-regulation of AQP-1gene increased intracellular calcium and inducedapoptosis in lens epithelial cells	Guoxing Xu	Fujian Institute of Ophthalmology , The First Affiliated Hospital of Fujian Medical University	Honghua Zheng	Fujian Institute of Ophthalmology , The First Affiliated Hospital of Fujian Medical University	China
P-179	Cataract / Refractive Surgery	ZEPTO® Precision Pulse Capsulotomy for cataract surgery in patients with severe corneal opacity.	Yuri Kato	Toho University Omori Medical Center			Japan
P-180	Cataract / Refractive Surgery	Standardized management of perioperative hypertension in cataract surgery	Takashi Ono	Miyata Eye Hospital			Japan
P-181	Cataract / Refractive Surgery	Ocular surface and tear cytokine changes after cataract surgery in patients with type 2 diabetes	Han Kyung Eun	Ewha Womans University College of Medicine, Mokdong Hospital			Korea
P-182	Cataract / Refractive Surgery	Corneal Epithelial Removal with a Newly Developed Epithelial Brush	Jae Yong Kim	Department of Ophthalmology, University of Ulsan College of Medicine, Asan Medical Center			Korea
P-183	Cataract / Refractive Surgery	Relationship Between Cataract Surgery and Mortality in Elderly Patients with Cataract: Nationwide Population-based Cohort Study in South Korea	Jung Yeob Han	Asan medical center			Korea
P-184	Cataract / Refractive Surgery	A report on the treatment of post-cataract surgery complicating endophthalmitis in a highly myopic man and its characteristics	Junqi Li	Ophthalmology Branch of the First Affiliated Hospital of Harbin Medical University			China
P-185	Basic research	Expression of SARS-CoV-2 receptor ACE2 is upregulated in inflammatory corneal epithelial cells and attenuated by resveratrol	Zhixin JIANG	Tianjin Eye Hospital			China
P-186	Basic research	Effects of bone morphogenetic proteins on corneal repair	Yan Zhang	The Second Hospital of Jilin University			China
P-187	Basic research	The Role of Bone Morphogenetic Protein 4 in Corneal Injury Repair	Yan Zhang	The Second Hospital of Jilin University			China
P-188	Basic research	Cytoprotective effects of water-soluble dihydropyrimidinthione derivative against UV-B induced human corneal epithelial cell photodamage	Enming Du	Henan Eye Institute, Henan Eye Hospital, Henan Provincial People's Hospital			China
P-189	Basic research	Two Chinese Families with Axenfeld-Rieger Syndrome	Xuyang Liu	Xiamen Eye Certer, Xiamen University			China
P-190	Basic research	CRISPR/Cas9-mediated heterozygous modification of mTOR gene and characterization of its inhibition on proliferation, migration and EMT in an HLEB3 cell	Aruna Li	The First Affiliated Hospital of Harbin Medical University			China
P-191	Basic research	Synergistic Drug Combination Against Posterior Capsular OpacificationAssociated Human Lens Epithelial Cells Proliferation	Xinyang Li	Shaanxi Eye Hospital, Xi'an People's Hospital (Xi'an Fourth Hospital), Affiliated Guangren Hospital, School of Medicine, Xi'an Jiaotong University			China
P-192	Basic research	Role of ERK1/2 in Regulation of Mild Oxidative Stress Induced Epithelial-to-Mesenchymal Transition in Human Lens Epithelial Cells	zaoxia Guo	ShaanXi Eye Hospital, Xi'an People's Hospital (Xi'an Fourth Hospital), Affiliation Guangren Hospital, School of Medicine, Xi'an Jiaotong University			China
P-193	Basic research	The synergistic role of TGF- $\beta$ /Smad and Wnt/ $\beta$ -catenin signaling pathways in the formation of posterior capsule opacification	Xi Chen	Shaanxi Eye Hospital			China
P-194	Basic research	Cytomegalovirus protein UL40 leader peptides in ocular fluids of Japanese Cytomegalovirus-associated uveitis	Mariko Shirane	Kyushu University			Japan
P-195	Basic research	Effect of in vivo expansion of regulatory T cells with IL-2/anti-IL-2 antibody complex plus rapamycin on experimental autoimmune uveoretinitis	Hiroshi Keino	Department of Ophthalmology, Kyorin University School of Medicine			Japan
P-196	Basic research	A Novel Mutation in <i>TECTA</i> in a Chinese Family Showing Ocular, facial and Auditory Features of the Jacobsen syndrome	Xuyang Liu	Xiamen Eye Certer, Xiamen University			China
P-197	Basic research	Clinical and molecular genetic analysis of a family with congenital glaucoma complicated with heart disease	Xuyang Liu	Xiamen Eye Certer, Xiamen University			China

No.	Category	Abstract title	First Author	Affiliation	Presenter (if different from First author)	Presenter Affiliation (if different from First author)	Country
P-198	Basic research	Suppression of Acetylcholinesterase Attenuated Diabetic Retinal Microvasculopathy by Blocking Caspase-1 Activation	Jixian Ma	Affiliated Eye Hospital of Nanchang University			China
P-199	Basic research	Melatonin Protects Diabetic Retinopathy by Regulating $\alpha$ -glutathione S-transferase against Oxidative Stress and Apoptosis via Wnt/ $\beta$ -catenin Pathway	Peirong Lu	The First Affiliated Hospital of Soochow University			China
P-200	Basic research	Deficiency of Fibroblast Growth Factor-21 Induces dry AMD in Mice via elevating Complement in eye	Ting Ting Zhao	Aier School of Ophthalmology, Central South University			China
P-201	Basic research	Nox4 Modulates Semaphorinphorin 7A to Promote Pathological fibro-vascular Scarring in a Mouse Model of WetAMD	Jingming Li	First Affiliated Hospital of Xian Jiaotong University			China
P-202	Basic research	Progress in understanding of the stalk and tip cells formation involvement in angiogenesis mechanisms	Yan Zhang	The Second Hospital of Jilin University			China
P-203	Basic research	Identification of Age-associated Proteins and Functional Alterations in Human Primary Retinal Pigment Epithelium Cells	Xiuxiu Jin	Henan Provincial People's Hospital			China
P-204	Basic research	In vitro study of decellularized Bruch membrane as a scaffold for human embryonic stem cell-derived retinal pigment epithelium (hESC-RPE) cells	Xue Ding	Beijing Tsinghua Changgung Hospital			China
P-205	Basic research	Changes in ocular and systemic organ blood flow in white rabbits with hemorrhagic shock	Kento Watanabe	Department of Ophthalmology, School of Medicine, Toho University	Tomoaki Shiba	International University of Health and Welfare Narita Hospital	Japan
P-206	Basic research	Effect of ocular dominance on fundus blood flow	Yuta Nakaniida	Department of Ophthalmology and Visual Science, Hiroshima University Graduate School of Biomedical and Health Sciences			Japan
P-207	Basic research	The proteins of mitochondrial dysfunction and integrin signaling change in the rat retina following cerebrospinal fluid pressure reduction	Fancheng Yan	Department of Ophthalmology, Beijing Friendship Hospital, Capital Medical University			China
P-208	Basic research	Proteomic analysis of retina in experimental unilateral optic nerve transection: Involvement of Müller cell activation	Fancheng Yan	Department of Ophthalmology, Beijing Friendship Hospital, Capital Medical University			China
P-209	Basic research	Proteomic analysis of underlying apoptosis mechanisms of human retinal pigment epithelial ARPE19 cells in response to mechanical stretch	Fancheng Yan	Department of Ophthalmology, Beijing Friendship Hospital, Capital Medical University			China
P-210	Basic research	Retinal ischemia reperfusion injury model established with a new surgical approach and short term observation of retinal vascular filling	Fancheng Yan	Department of Ophthalmology, Beijing Friendship Hospital, Capital Medical University			China
P-211	Basic research	Evaluation of CRISPR/Cas9 site-specific function and validation of sgRNA sequence by a Cas9/sgRNA-assisted reverse PCR technique	Beibei Zhang	Henan Provincial People's Hospital/Henan Eye Institute			China
P-212	Basic research	Research Progress in Ophthalmic Change and Related Mechanism on Space Flight Associated Neuro Ocular Syndrome	Yang Liu	Weifang Eye Hospital			China
P-213	Artificial Intelligence (AI)	Computational Retinal Microvascular Biomarkers from OCTA Image in Clinical Investigation	Bingwen Lu	Department of Ophthalmology, Eye Hospital, China Academy of Chinese Medical Sciences			China
P-214	Artificial Intelligence (AI)	Feasibility study of repeated semi-supervised learning to generate AI model by using Fuchs endothelial corneal dystrophy mouse model	Takeru Nishikawa	Doshisha University, Department of Biomedical Engineering			Japan
P-215	Artificial Intelligence (AI)	Applications of AI in ophthalmology	Yaohong Liu	Nankai University			China
P-216	Artificial Intelligence (AI)	Detecting sebaceous carcinoma in whole-histopathological slide images using deep learning.	Naohiko Funatsu	Department of Ophthalmology, Graduate School of Medical Sciences, Kyushu University			Japan