

MUHAMMAD BAYU SASONGKO

I. PERSONAL INFORMATION

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| Date of birth | January 18, 1981 |
| Nationality | Indonesian |
| Email | mb.sasongko@ugm.ac.id / mb.sasongko@unimelb.edu.au / mb.sasongko@gmail.com |
| Contact no. | +62811293476 |

II. QUALIFICATIONS/ TRAINING

QUALIFICATIONS

| Year | Degree, Field of Study | Institution and Location |
|-------------|--------------------------------------|---|
| 2009-2012 | PhD, Ophthalmology | Centre for Eye Research Australia, University of Melbourne, Australia |
| 2007-2008 | MEpi, Epidemiology and Biostatistics | School of Population and Health, University of Melbourne, Australia |
| 2003-2005 | MD, Medicine | Faculty of Medicine, Gadjah Mada University, Indonesia |
| 1999-2003 | B.MedSc , Medicine | Faculty of Medicine, Gadjah Mada University, Indonesia |

TRAINING/ FELLOWSHIPS

| Year | Field of Training | Institution and Location |
|-------------|---------------------------------------|--|
| 2020 | Vitreo-Retina fellowship | Sydney Eye Hospital, Sydney, Australia |
| 2018 | Medical Retina and Uveitis fellowship | Royal Victorian Eye and Ear Hospital, Melbourne, Australia |
| 2015 | Vitreo-Retina fellowship | Prof. Dr. Sarjito General hospital/ Faculty of Medicine, UGM |

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| 2012 | Research fellowship | Centre for Eye Research Australia/ University of Melbourne, Australia |
| 2006-2007 2012-2014 | Ophthalmology training | Faculty of Medicine, Gadjah Mada University, Indonesia |

III. PROFESSIONAL MEMBERSHIPS

| Year | Position/ Organization |
|--------|--|
| 2020 – | Chairperson, Young Ophthalmologist forum, Indonesian Ophthalmologist Association |
| 2018 – | Member, Asia Pacific Tele-Ophthalmology Society |
| 2017 – | Board Member, Indonesian College of Ophthalmologist |
| 2015 – | Member, Indonesian Vitreo-Retina Society |
| 2012 – | Member, Asia Pacific Academy of Ophthalmology |
| 2009 – | Member, Association of Research and Vision in Ophthalmology (ARVO) |
| 2007 – | Member, Indonesian Ophthalmologist Association |
| 2005 – | Member, Indonesian Medical Association |

IV. CURRENT APPOINTMENTS

ACADEMIC/ RESEARCH APPOINTMENTS

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| 2021 – | Head , Department of Ophthalmology, Faculty of Medicine, UGM |
| 2020 – | Research Affiliates , Save Sight Institute, University of Sydney, Sydney, Australia |
| 2017 – | Associate Professor , Department of Ophthalmology, Faculty of Medicine, UGM |
| 2014 – | Head , Department of Ophthalmology Research Unit, Faculty of Medicine, UGM |
| 2012 – | Honorary fellow , Dept. of Ophthalmology/ Centre for Eye Research Australia, University of Melbourne |

CLINICAL APPOINTMENTS

- 2020 – **Senior Consultant in Vitreo-Retina**, Dr. Sardjito General Hospital, Yogyakarta, Indonesia
- 2020 – **Senior Consultant in Vitreo-Retina**, Vitreo-Retina Service and Cataract Surgery, Dr. Yap Eye Hospital, Yogyakarta, Indonesia

V. RESEARCH, TEACHING AND SUPERVISION

RESEARCH EXPERIENCE

- 2019 – **Principal Investigator**, Development of Portable, Smartphone-Based Tele Diabetic Retinopathy screening system
- 2018 – 2019 **Principal Investigator**, The Jogjakarta Diabetic Retinopathy Initiatives in Pregnancy (Jog-DRIP)
- 2017 – 2019 **Principal Investigator**, Development of Rapid Assessment of Diabetic Retinopathy system for Rural Indonesia
- 2017 – 2019 **Co-Principal Investigator**, Development of Novel Radial Relaxing Retinectomy for Advanced Stage of Retinal Detachment
- 2017 – 2019 **Co-Principal Investigator**, Development of Stem Cell Therapy for Retinitis Pigmentosa
- 2015 – 2019 **Co-Principal Investigator**, Genetic and Pharmacogenetic Study of AMD in Indonesia
- 2013 – 2017 **Principal Investigator**, Development of New Diabetic Retinopathy Screening System in Indonesia using Tele-Ophthalmology Programme, in Collaboration with Hellen-Keller International
- 2013 – 2017 **Principal Investigator**, The Jogjakarta Eye Diabetic Study in the Community (JOGED.COM)
- 2013 – 2016 **Principal Investigator**, Gene-Environmental Study on the Link between Exogenous Contraceptive Hormones and Incidence of Orbitocranial Meningioma among Indonesian Females
- 2012 – 2013 **Co-Principal Investigator**, National Health and Examination Survey on Blindness and Visual Impairment in Indonesia
- 2007 – 2011 **Investigator**, Identifying Novel Retinal Vascular Geometry in Persons with Diabetes and Diabetic Retinopathy

VI. HONORS, AWARDS AND ACHIEVEMENTS

Year

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| 2019 | University Award for the best Academic Staff and Outstanding Achievement in Science and Technology, Universitas Gadjah Mada |
| 2019 | International Young Investigator Award, Japanese Ophthalmology Society |
| 2018 | University Award for the Most Significant Publication in health science, Universitas Gadjah Mada |
| 2017 | Representative of Indonesia in Asia Pacific Academy of Ophthalmology (APAO) Leadership Development Program |
| 2017 | Faculty Award for Teaching Excellence, Universitas Gadjah Mada |
| 2016 | Research Excellence Grant for the Development of Rapid Diabetic Retinopathy Assessment, Ministry of Research and Higher Education, Government of Indonesia |
| 2016 | APAO Yasuo Tano Travel Grant |
| 2015 | APAO-ZOC Travel Award for Invited Speaker |
| 2014 | World Diabetes Foundation project grant (in collaboration with Hellen-Keller International) |
| 2014 | Research Excellence Grant |
| 2012 | Faculty Award for the Most Published Clinician, Universitas Gadjah Mada |
| 2012 | International Society of Hypertension Travel Fellowship Awards |
| 2011 | Jack Brockhoff Grant for Clinical Research |
| 2011 | Asia ARVO Travel Fellowship Award |
| 2009 | Dean's Doctoral Fellowship Award, the University of Melbourne |
| 2009 | Melbourne International Research Scholarships (MIRS) |
| 2009 | International Postgraduate Scholarships, Government of Indonesia |
| 2007 | Australian Partnership Scholarships, Australian Government |

VII. PUBLICATIONS

Sasongko MB, Wong TY, Wang JJ. Retinal Arteriolar Changes: Intermediate Pathways Linking Early Life Exposures to Cardiovascular Disease?. *Microcirculation* 2010; 17:21 – 31

Sasongko MB, Wang JJ, Donague KC, et al. Alterations in Retinal Microvascular Geometry in Young Type 1 Diabetes. *Diabetes Care* 2010; 33: 1331 – 1336

Sasongko MB, Wong TY, Nguyen TT, Jenkins AJ, Kawasaki R, Shaw JS, Wang JJ. Serum Apolipoproteins AI and B are Stronger Biomarkers for Diabetic Retinopathy than Traditional Lipids. *Diabetes Care* 2011; 34: 474 – 479 (with editorial)

Benitez-Aguirre P, Craig M, **Sasongko MB**, Jenkins AJ, Wong TY, Wang JJ, Cheung N, Donaghue KC. Retinal Vascular Geometry Predicts Incident Retinopathy in Young Persons with Type 1 Diabetes: A Prospective Longitudinal Study from Adolescence. *Diabetes Care* 2011; 34(7):1622 – 1627.

Sasongko MB, Wong TY, Nguyen TT, Cheung CY, Shaw JE, Wang JJ. Retinal Vascular Tortuosity in Persons with Diabetes and Diabetic Retinopathy. *Diabetologia* 2011; 54(9): 2409 – 2416.

Benarous R, **Sasongko MB**, Qureshi S, Fenwick E, Dirani M, Wong TY, Lamoureux EL. Differential Associations of Serum Lipids with Diabetic Retinopathy and Diabetic Macular Edema. *Invest Ophthalmol Vis Sci* 2011; 52 (10): 7464 – 7469.

Serre K, **Sasongko MB**. Modifiable Lifestyle and Environmental Risk Factors Affecting the Retinal Microcirculation. *Microcirculation* 2012; 19(1): 29 – 36.

Benitez-Aguirre P, **Sasongko MB**, Craig M, Jenkins AJ, Wong TY, Wang JJ, Cheung N, Donaghue KC. Retinal Vascular Geometry Predicts and Early Nephropathy in Young Persons with Type 1 Diabetes: A Prospective Longitudinal Study. *Diabetes Care* 2012; 35(3): 599 – 604.

Sasongko MB, Wong TY, Donaghue KC, Cheung N, Aguirre PB, Jenkins A, Hsu W, Lee ML, Wang JJ. Retinal Arteriolar Tortuosity is associated with Microvascular Complications in Type 1 Diabetes. *American Journal of Ophthalmology* 2012; 153(1): 176 – 183.

Sasongko MB, Wong TY, Nguyen TT, Shaw JE, Wang JJ. Novel versus Traditional Risk Markers for Diabetic Retinopathy. *Diabetologia* 2012; 55(3): 666 – 670.

Sasongko MB, Wong TY, Nguyen TT, Kawasaki R, Alicia J, Shaw JE, Robinson C, Wang JJ. Serum Apolipoproteins are Associated with Systemic and Retinal-specific Microvascular Function. *Diabetes* 2012; 61(7): 1785 – 1792.

Sasongko MB, Hodgson LAB, Kawasaki R, Wang JJ, Hsu W, Lee ML, Lau QP, Wong TY. Correlation and Reproducibility of Semi-Automated Retinal Vascular Geometric Measurements within Paired Stereoscopic Images. *Ophthalmic Epidemiology* 2012; 19(5): 322 – 327.

Man EK, **Sasongko MB**, Sanmugasundram S, Nicolau TE, Xie J, Wang JJ, Wong TY, Lamoureux EL. Axial Myopia is Protective of Severe Diabetic Retinopathy. *Ophthalmology* 2012; 119 (9): 1754 – 1759

Hao H, **Sasongko MB**, Wong TY, Che Azemin MZ, Aliahmad B, Hodgson L, Kawasaki R, Cheung CY, Wang JJ, Kumar DK. Does retinal vascular geometry vary with cardiac cycle? *Invest Ophthalmol Vis Sci*. 2012 Aug 24;53(9):5799-805

Man RE, **Sasongko MB**, Wang JJ, Lamoureux EL. Association between myopia and diabetic retinopathy: a review of observational findings and potential mechanisms. *Clinical and Experimental Ophthalmology* 2013; 41(3):293 – 301.

Man RE, **Sasongko MB**, Lamoureux EL. Author reply: Effect of axial length on diabetic retinopathy. *Ophthalmology* 2013; 120(4): 877

Man RE, **Sasongko MB**, Xie J, Best WJ, Noonan JE, Lo TC, Wang JJ, Luu CD, Lamoureux EL. Decreased retinal capillary flow is not a mediator of the protective myopia-diabetic retinopathy relationship. *Invest Ophthalmol Vis Sci* 2014; 55: 6901-7.

Sasongko, M. B., Wong, T. Y., Jenkins, A. J., Nguyen, T. T., Shaw, J. E. and Wang JJ. Circulating markers of inflammation and endothelial function, and their relationship to diabetic retinopathy. *Diabet Med* 2015; 32(5): 686-91.

Sasongko MB, Wong TY, Nguyen TT, Cheung CY, Shaw JE, Kawasaki R, Lamoureux EL, Wang JJ. Retinal Vessel Tortuosity and Its Relation to Traditional and Novel Vascular Risk Markers in Persons with Diabetes. *Curr Eye Res* 2016; 19: 1-7.

Man RE, **Sasongko MB**, Wang JJ, MacIsaac R, Wong TY, Sabanayagam C, Lamoureux EL. The Association of Estimated Glomerular Filtration Rate With Diabetic Retinopathy and Macular Edema. *Invest Ophthalmol Vis Sci* 2015; 56(8): 4610-6

Man RE, **Sasongko MB**, Wang JJ, Lamoureux EL. Author response: retinal capillary flow and diabetic retinopathy. *Invest Ophthalmol Vis Sci* 2015; 56(3): 2002.

Sasongko MB, Agni AN, Wardhana FS, Kotha S, Gupta P, Widayanti TW, Supanji, Widyaputri F, Widyaningrum R, Wong TY, Kawasaki R, Wang JJ. Rationale and Methodology for a Community-Based Study of Diabetic Retinopathy in an Indonesian Population with Type 2 Diabetes Mellitus: the Jogjakarta Eye Diabetes Study in the Community (JOGED.COM). *Ophthalmic Epidemiology* 2017; 24(1): 48 - 56.

Sasongko MB, Widyaputri F, Agni AN, Wardhana FS, Kotha S, Gupta P, Widayanti TW, Haryanto S, Widyaningrum R, Wong TY, Kawasaki R, Wang JJ. Prevalence of Diabetic Retinopathy and Blindness in Indonesian Adults with Type 2 Diabetes. *Am J Ophthalmol* 2017; 181: 79–87.

Dharmastuti DP, Agni AN, Widyaputri F, Pawiroranu S, Sofro ZM, Wardhana FS, Haryanto S, Widayanti TW, Kotha S, Gupta P, **Sasongko MB**. Associations of Physical Activity and Sedentary Behaviour with Vision-Threatening Diabetic Retinopathy in Indonesian Population with Type 2 Diabetes Mellitus: Jogjakarta Eye Diabetic Study in the Community (JOGED.COM). *Ophthalmic Epidemiology* 2018; 25(2):113-119.

Adiarti R, Ekantini R, Agni AN, Wong TY, **Sasongko MB**. Retinal Arteriolar Narrowing in Young Adults with Glaucomatous Optic Disc. *J of Glaucoma* 2018; 27(8): 699-702.

Sasongko MB, Widyaputri F, Sulistyoningrum DC, Wardhana FS, Widayanti TW, Supanji S, Widyaningrum R, Indrayanti SR, Widhasari IA, Agni AN. Estimated Resting Metabolic Rate and Body Composition Measures Are Strongly Associated With Diabetic Retinopathy in Indonesian Adults With Type 2 Diabetes. *Diabetes Care* 2018; 41(11): 2377 – 2384.

Supartoto A, **Sasongko MB**, Respatika D, Mahayana IT, Pawiroranu S, Kusnanto H, Sakti DH, Nurlaila PS, Heriyanto DS, Haryana SM. Relationships Between Neurofibromatosis-2,

Progesterone Receptor Expression, the Use of Exogenous Progesterone, and Risk of Orbitocranial Meningioma in Females. *Front Oncol* 2019; 8: 651

Supartoto A, Mahayana IT, Heriyanto DS, **Sasongko MB**, Respatika HD, Sakti DH, Nurlaila PS, Kusnanto H, Pawiroranu S, Haryana SM. Neurofibromatosis type 2 gene mutation and progesterone receptor messenger RNA expression in the pathogenesis of sporadic orbitocranial meningioma. *Int J Ophthalmol* 2019;12(4):571-576

Sasongko MB, Wardhana FS, Febryanto GA, Agni AN, Supanji S, Indrayanti SR, Widayanti TW, Widyaputri F, Widhasari IA, Lestari YD, Adriono GA, Sovani I, Kartasasmita AS. The estimated healthcare cost of diabetic retinopathy in Indonesia and its projection for 2025. *Br J Ophthalmol* 2020; 104(4): 487-492.

Sasongko MB, Rogers S, Constantinou M, Sandhu SS, Wickremasinghe SS, Al-Qureshi S, Lim LL. Diabetic retinopathy progression 6 months post cataract surgery with intravitreal bevacizumab vs triamcinolone: a secondary analysis of the dimecat trial. *Clin exp ophthalmology* 2020; 46(6): 793-801

Girsang W, Sari DCR, Srigutomo W, Gondhowiardjo TD, **Sasongko MB**. Concept and application of relaxing radial retinectomy for retinal detachment with advanced proliferative vitreo-retinopathy. *Int J Retina Vitreous* 2020; 1(6):46

Sasongko MB, Indrayanti SR, Wardhana FS, Widhasari IA, Widyaputri F, Prayoga ME, Widayanti TW, Supanji, Agni AN. Low utility of diabetic eye care services and perceived barriers to optimal diabetic retinopathy management in Indonesian adults with vision-threatening diabetic retinopathy. *Diabetes Res Clin Pract* 2021; 171:108540