Innate and adaptive host responses and their genetic control in tuberculosis : studies in Indonesia, a highly TB endemic setting

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About the author

(Agnes) Edhyana Kusumastuti Sahiratmadja was born on May 11th, 1966 in Jakarta, Indonesia. After finishing her undergraduate education at Government High School "Sekolah Menengah Atas Negri 1" (SMAN -1) in Jakarta in 1985, she was selected for the gifted children program of the Ministry of Education of Republic of Indonesia, to receive a scholarship from the Netherlands Universities Foundation for International Co-operation (NUFFIC). She followed a Colloquium Doctum program at the University of Utrecht for 6 months before enrolling at the Medical Faculty of the University of Nijmegen in 1986 to study Medicine. She obtained her propedeuse in 1989 and her doctorate in 1993. She then traveled back to Indonesia to take part in a Typhoid Fever project for 6 months in Semarang under supervision of dr. Wil Dolmans, dr. Monique Keuter and prof. Jos van der Meer, and for another 3 months at Atma Jaya University Jakarta to join the Public Health Department. Back in the Netherlands, she obtained her Medical Degree in 1995.

In 1996 she joined the University Padjadjaran in Bandung for an adaptation program and was accepted as a young lecturer by the Ministry of Education stationed at the department of Dermatology in 1998 (former head: prof. Toni S. Djajakusuma). Her interest in molecular biology led her to join the Eijkman Institute in Jakarta (headed by prof. Sangkot Marzuki) where she started her PhD program in Jakarta on the "Immunogenetic Basis of Susceptibility to Mycobacterial Infection" in 2001 as part of a KNAW project. The work was continued in 2004 in Leiden at the departments of IHB and INZI of the Leiden University Medical Centrum (LUMC).

After finishing her PhD, she will resume her position as a staff member of the Ministry of Education of the Republic of Indonesia.

Malik S, Sudoyo H, Pramoonjago P, Suryadi H, Sukarna T, Njunting M, **Sahiratmadja E** & Marzuki S **(2002)** Nuclear mitochondrial interplay in the modulation of the homopolymeric tract length heteroplasmy in the control (D-loop) region of the mitochondrial DNA.
Hum Genet. 110(5):402-411

van Crevel R, Nelwan RH, Borst F, **Sahiratmadja E**, Cox J, van der Meij W, de Graaff M, Alisjahbana B, de Lange WC & Burger D **(2004)** Bioavailability of rifampicin in Indonesian subjects: a comparison of different local drug manufacturers.
Int J Tuberc Lung Dis. 8(4):500-503

Alisjahbana B, van Crevel R, **Sahiratmadja E**, den Heijer M, Maya A, Istriana E, Danusantoso H, Ottenhoff TH, Nelwan RH & van der Meer JW **(2006)** Diabetes mellitus is strongly associated with tuberculosis in Indonesia.
Int J Tuberc Lung Dis. 10(6):696-700

Sahiratmadja E, Alisjahbana B, de Boer T, Adnan I, Maya A, Danusantoso H, Nelwan RH, Marzuki S, van der Meer JW, van Crevel R, van de Vosse E & Ottenhoff TH **(2007)** Dynamic changes in pro- and anti-inflammatory cytokine profiles and gamma interferon receptor signaling integrity correlate with tuberculosis disease activity and response to curative treatment.
Infect Immun. 75(2):820-829

Sahiratmadja E, Blaak-Pablo R, de Visser AW, Alisjahbana B, Adnan I, van Crevel R, Marzuki S, van Dissel JT, Ottenhoff TH & van de Vosse E **(2007)** Association of polymorphisms in IL-12/IFN-γ pathway genes with susceptibility to pulmonary tuberculosis in Indonesia.
Tuberculosis 87(4): 303-311

Sahiratmadja E, Alisjahbana B, Buccheri S, Di Liberto D, de Boer T, Adnan I, van Crevel R, Klein MR, van Meijgaarden KE, Nelwan RH, van de Vosse E, Dieli F & Ottenhoff TH **(2007)** Plasma granulysin levels and cellular interferon-γ production correlate with curative host responses in tuberculosis, while plasma interferon-γ levels correlate with tuberculosis disease activity in adults.
Tuberculosis 87(4): 312-321

Alisjahbana B, **Sahiratmadja E**, Nelwan EJ, Purwa AM, Ahmad Y, Ottenhoff TH, Nelwan RH, Parwati I, van der Meer JW & van Crevel R **(2007)** The effect of type 2 diabetes mellitus on the presentation and treatment response of pulmonary tuberculosis.
Clin Inf Dis. 45(4):428-435

Sahiratmadja E, Wieringa FT, van Crevel R, de Visser AW, Adnan I, Alisjahbana B, Slagboom E, Marzuki S, Ottenhoff TH, van de Vosse E & Marx JJM **(2007)** Iron deficiency and *NRAMP1* polymorphisms (INT4, D543N and 3'UTR) do not contribute to severity of anaemia in tuberculosis in Indonesian population.
Br J Nutr. 98(4):684-690

Davila S, Hibberd ML, **Sahiratmadja E**, Bonnard C, Alisjahbana B, van Crevel R, van de Vosse E, Ottenhoff THM & Seielstad M **(2007)** Analysis of genes in innate immune pathways finds novel associations with pulmonary tuberculosis risk in Indonesia.
Submitted for publication

Sahiratmadja E, Wieringa FT, Alisjahbana B, Nelwan RHH, van Crevel R, Ottenhoff TH & Nagelkerke N **(2007)** Smoking and Tuberculosis: An analysis of a case-control study in Indonesia.
Submitted for publication