

## CURRICULUM VITAE



### I. PERSONAL INFORMATION

1.1.	Full name	Fedik Abdul Rantam, DVM, Dr. Prof.
1.2.	Rank	Professor
1.3.	Positions	<ol style="list-style-type: none"><li>1. Chairman of Magister in Vaccinology and Immunotherapeutic (2011- present)</li><li>2. Head of academic commission, Senat Faculty of Veterinary Medicine (2011-present)</li><li>3. Chairman of Stem cell Center, Institute of Tropical Disease, UA (2008-present)</li><li>4. Consultant of stem cell at Tissue Bank, Dr. Soetomo Teaching Hospital</li><li>5. Chairman of stem cell scientific, Indonesia stem cell association (ASPI) (2012- present)</li><li>6. Member of National Dengue Vaccine Development Consortium(2012-present)</li><li>7. Expertise on Stem Cell at Indonesia Tropical Disease Hospital (RSPTI) at Airlangga University. (2012-present)</li></ol>
1.4.	Address	Lab. Virology and Immunology, Faculty of Vet Medicine, Kampus C Unair, Jl. Mulyorejo Surabaya, 60115
1.5.	Telephone/Fax	031 5992785
1.6.	E-mail	fedik.ar@gmail.com

## II. EDUCATIONAL BACKGROUND

<b>2.1. Program:</b>	<b>Bachelor</b>	<b>Master</b>	<b>Doctoral</b>
2.2. University	Airlangga University	Freie Universitaet Berlin (FU-Berlin), Germany, (1992-1994)	Freie Universitaet Berlin (FU-Berlin), Germany, (1994-1997)
2.3. Discipline	Veterinary Medicine (Veterinarian)	Virology and Immunology	Virology and Immunology Molecular & cellular

## III. AWARDS

<b>Number</b>	<b>Years</b>	<b>Name of Awards</b>	<b>From</b>
1.	1990	The best lecture 2 <sup>st</sup> rank	Faculty of Vet Medicine, Airlangga University
2	1997	Magna cumlaude	Freie Universitaet Berlin, Germany
3	1998	The best lecture 1 <sup>st</sup> rank	Faculty of Vet Medicine
4	2000	Post doctoral fellow	DAAD (Deutsche Akademische Austauschdienst), Germany
5	2005	The best researcher 1 <sup>st</sup> rank	General director of Higher Education, Dep. of Culture and Education
6	2008	Post doctoral fellow	Bioscurity engagement, USA/Georgia University, USA
7	2012	Diagnosis and prevention DHF in Asia Pacific fellow	WHO- SEARO, Singapore

## IV. ACADEMIC SERVICES

Teaching:

1. Virology (microbiology II) (undergraduate level, Vet. Medicine Faculty)
2. Viral Infectious disease (undergraduate level, Vet Medicine Faculty)
3. Immunology (Undergraduate level, doctoral level, Vet. Medicine Faculty, Medicine Faculty)
4. Immunology of infection (Master level PS Vaccinology and Immunotherapeutic)
5. Nanotechnology vaccine (Master level PS Vaccinology and Immunotherapeutic)
6. Adjuvant technology (Master level PS Vaccinology and Immunotherapeutic)
7. Design vaccine industry (Master level-PS Vaccinology and Immunotherapeutic)
8. Reproduction Immunology (Master level-PS IBR)

9. Advance Immunology (Master level-PS Vet public health & infectious diseases)
10. Stem Cell (Master level PS Immunology, doctoral level, Medicine Faculty)
11. Molecular of Virology (undergraduate level, doctoral level, Medicine Faculty)
12. Biocompatibility (Master level, PS Technobiomedic, FST)

Graduated Advisees:

- Undergraduate: 6 students
- Master: 13 students
- Doctoral: 13 students

Advising:

- Undergraduate: 8 students
- Master: 13 students
- Doctoral: 13 students

## V. RESEARCH INTERESTS

Stem cell, Vaccine, adjuvant (chimera vaccine),

## RESEARCH EXPERIENCE

No.	Years	Title	Funding	
			Sources	Amount (in Rupiah)
1.	2000/2001	Establish of Recombint of E protein dengue virus using bacullovirus model as vaccine clone subunit	Ministerium research and technology	300.000.000
2	2000/2002	Isolation and characterization og immunogenic protein of Dengue Virus as vaccine subunit	Higher education (dep of Education and culture)	150.000.000
3	2000	Bispecific of monoclonal Antibody as diagnostic of dengue virus infection (member)	Science and Technology in Medicine	35.000.000
4	2001/2002	Development of cocktail vaccine base on immunogenic protein composition of structural protein (E-C-PrM) Dengue virus Indonesia isolate	Research Competitive, General Director of High education, RI	70.000.000
5	2003	Characterization of F protein ND	Basic Research	15.000.000

		virus natural isolate as material diagnostic	Competitive, General Director of High Education, RI	
6	2003	Establish of peptide epitope specific anomaly antigen mucosa as monoclonal antibody RAU (team)	Basic Research Competitive, General Director of High Education, RI	400.000.000
7	2003	Receptor expression dengue virus in endothelial cell inoculated dengue virus Indonesia isolate	Basic Research Competitive, General Director of High Education, RI	25.000.000
8	2003-2006	Epidemiologi molekuler dan karakterisasi strain geografik virus Dengue di Indonesia (team)	Research competitive on postgraduate program, General Director of High Education, RI	300.000.000
9	2003	Characterization and clone N protein of rabies virus as vaccine materials (team)	Research Competitive, General Director of High Education, RI	35.000.000
10	2002-2004	Goat ZP protein characterization as vaccine contraception.(team)	Research Competitive, General Director of High Education, RI	90.000.000
11	2004-2005	Molecular epidemiology of Avian influenza and mapping molecular for early warning system (EWS) AI in Indonesia.	Research Competitive, General Director of High education, RI	100.000.000
12	2005/2006	Vaccination Model of Avian Influenza in chicken, fowl water, and swine	Agriculture Department, RI	400.000.000
13	2007	Characterization of N1 protein of AIV	Collaboration of Microbiology Department and Makmal Biologic, UPM, Malaysia	100.000.000
14	2008-2009	E protein recombinant of dengue	Research and	100.000.000

		virus conventional and new variant for clone subunit vaccine	Technology Minister, RI	
15	2009	Stem cell for tendon fracture treatment (team)	Research Competitive, Higher Education of National Education Department	30.000.000
16	2009	Hematopoitic stem cells development for artherosclerosis treatment (team)	Research Competitive, Higher Education of National Education Department	50.000.000
17	2009	Hematopoitic stem cell development for HIV treatment (team)	Research Competitive, Higher Education of National Education Department	50.000.000
18	2009	Molecular Epidemiology of Newcastle Disease Circulating in Commercial Poultry a Cross Indonesia.	SPERL-USA/Unair	300.000.000
19	2010-2012	Attenuated dengue virus vaccine Indonesia isolate	PHKI Research Project, Higher education	300.000.000
20	2012	Chimera Vaccine Development for Dengue Virus	SINas (Minister of Research and Technology, Indonesia Republic)	200.000.000
21	2013	Chimera Vaccine Development for Dengue Virus (team-consortium)	SINas (Minister of Research and Technology, Indonesia Republic)	1,6 M
22	2015	Hybrid immunoglobulin virus dengue dengan mesenchymal stem cell (team)	Kemenristek/ Dikti (RUPTN)	60.000.000
	<b>Stem cell</b>			
23	2009.	Biological Characterization of human stem Cells from Bone	Stem Cell Center-ITD	50.000.000

		Marrow. (team)		
24	2009.	Characterization of lymphocyte resistant from human haemopoietic Stem Cell. (team)	Stragnas Dikti	50.000.000
25	2009	Mesenchymal Stem Cell for Bone Fracture. (HIBAH PASCA) (team)	Hibah Pasca	50.000.000
26	2009	Mesenchymal for tendon repair (team)	Stagnas DiktiMember	50.000.000
27	2009	Mesenchymal induction to cardiomyocyte using reversin. (STRAGNAS-DIKTI).(team)	Stagnas Dikti	50.000.000
28	2009	Application of mesenchymal stem cell from human bone marrow for Diabetes mellitus (DM).(team)	Stem Cell center -ITD	50.000.000
29	2010	Stem Cell validation for clinical Application. (team)	Stem Cell center -ITD	50.000.000
30	2011	Aplikasi autologous BM-stem cell pada anak kelainan tulang tibia. (team)	Tissue bank, RSUD Dr. Soetomo Teaching Hospital.	50.000.000
31	2012	Autologous MSC bone Marrow Stem Cell and Allogenic Pancreatic Stem Cell for Repair of beta Pancreatic Cell in Axperimental Diabetes mellitus (team)	SINas, Minister Resaerch and Technology Indonesia Republic	400.000.000
32	2014	Quiescence stem cell (team)	RUPT-Dikti	50.000.000
33	2015	Potensi berbagai sumber stem cell dalam diferensiasi menjadi sel spesifik untuk terapi terhadap penyakit yang spesifik (team)	Insentif, Kemenristek	200.000.000

## VI. PUBLIC SERVICES EXPERIENCES

No.	Years	Title	Funding	
			Sources	Amount (in Rupiah)
1.	2005	Penanggulangan penyakit AI pada unggas di Surabaya	TVRI	10.000.000
2.	2006	Penanggulangan penyakit AI pada unggas di Surabaya	JTV	10.000.000
3.	2006	Virus Avian Influenza (AI)	Regional	20.000.000

		,laboratorium and morbidity	Government, Banyuwangi	
4.	2006	Avian Influenza Disease and eradication strategic.	Regional Government, Jember	20.000.000
5.	2007	Penanggulangan penyakit AI pada unggas di Blitar	PT. Sanbe/PT Caprifarmindo	20.000.000
6.	2009	Penanggulangan penyakit AI pada unggas di Medan	PT. Sanbe/PT Caprifarmindo	20.000.000
7.	2010	Penanggulangan penyakit unggas di Batu	PT. Sanbe/PT Caprifarmindo, PT. Wonokoyo	20.000.000
8	2012	Pemberdayaan peternak itik di Jombang	LPPM-UA	10.000.000
9	2015	Pemberdayaan peternak sapi perah dan pelayanan diagnose terhadap brucellosis di Pacet Mojokerto	PPM-UA	10.000.000
10	2007	Epidemiologi dan Strategi penanggulangan penyakit AI di Jawa Timur	PEMPROV- Jawa Timur	20.000.000

## VII. ACADEMIC PUBLICATIONS

No.	Year	Title	Volume (Issue)	Journals
<b>A. International Journals – Published</b>				
1.	1994	The intranuclear joest-degen inclusion body is the site of transcription of borna disease virus (BDV)in neurons and astrocytes	13	Clinical neuropathol.
2.	1996	First isolates of infectious human borna disease virus from patients with mood disorders	1, impact factor 14,496	Mol. Psychiatry
3	2010	Analyses of Precore and Core Promoter Mutations of Hepatitis B Virus in Patients with Chronic Hepatitis B in Surabaya, Indonesia	4	Indonesian Microbiology
4	2011	The relation between levels of TNF-alpha, IL-1 $\beta$ , PGE, and PLA2, with the severity degree of dengue hemorrhagic	5	Journal of Indonesia, Microbiology
5	2011	Displacement of the Predominant Dengue Virus from Type 2 to Type 1 with a Subsequent Genotype Shift from	6:11, impact factor 3,234	PLos One, USA

		IV to I in Surabaya, Indonesia 2008–2010		
6	2012	Reversin Increase the Plasticity of Bone Marrow - derived Mesenchymal Stem Cell for Generation of cardiomyocyte in Vitro.	Impact factor 5,611	Acta Medica Indonesia-The Indonesian Journal of Internal Medicine.
7	2012	Autologous MSC bone Marrow Stem Cell and Allogenic Pancreatic Stem Cell for Repair of beta Pancreatic Cell in Axperimental Diabetes mellitus.	1	African Journal of Internal Medicine (International Scholars Journal).
8	2013	Serotype infectivity and phylogenetic of dengue virus cause of dengue fever (DF), dengue hemorrhagic Fever (DHF) and dengue Shock syndrome (DSS) in Surabaya-Indonesia	1	African Journal of Internal Medicine (International Scholar Journal)
9	2013	Predominance of precore mutations and clinical significance of basal core promoter mutations in chronic hepatitis B virus infection in Indonesia	1, impact factor	Biomedical reports 1
10	2013	Analysis of recombinant envelope (E) protein multivalent dengue virus serotype -1,-3,-4 expressed by baculovirus system	1, impact factor, 0,157	Journal of Trial in Vaccinology, UK (Elsevier)
11	2013	The Effect of Bone Marrow Transplantation on Oocyte-Granulosa Cells Interaction and Follicular Development of Cisplastin-Induced Ovarian Failure in Rat	3:1 impact factor 3,37	Stem Cell Research and Therapy
12	2013	The Role of Adaptive MSCs as an Attempt Regeneration of Spermatogenesis Process Using by Hypoxia Precondition In Vitro	3:11	Journal of Animal Production Advances
13	2014	In Vitro Cytotoxicity assay of Saupus Androgynus on Human Mesenchymal Stem Cells.	19, impact factor 3,225	Toxicology and Environmental Chemistry Journal, USA
14	2014	Homology and Phylogenetic	4:2	Journal of



		Analysis of Nucleotide Sequence of <i>Omp2a</i> Gene of <i>Brucella abortus</i> Local Isolates		Veterinary Advances
15	2014	Therapy Model of Burn Wound Healing in rat (Wistar) used Combining PBMCs and BM-derived Mesenchymal Stem Cell.	3,	African Journal of Interanal Medicine (International Scholar Journal). in Press.
16	2014	The Osteogenic Capacity of Human Amniotic Membrane Mesenchymal Stem Cell (hAMSC) and Potential Application in Maxillofacial Bone Reconstruction In vitro study.	7 . Scientific research publishin, impact factor 0,85	Journal of Biomedical Science and Engineering (JBiSE).
17	2015	Induce monocyte derived HSCs (CD34+)with LPS accelerated homing rat bone marrow-mesenchymal stem cell (BM- MSCs) in injured pancreas	8, Scientific research publishin, impact factor 0,85	Journal of Biomedical Science and Engineering (JBiSE).
18	2015	Study biocompatibility and osteogenic differentiation potential of human umbilical cord mesenchymal stem cell (hUCMSCs) with gelatin solvent	8, Scientific research publishin, impact factor 0,85	Journal of Biomedical Science and Engineering (JBiSE).
19	2015	Healing mechanism and osteogenic capacity of Bovine bone mineral-human amniotic mesenchymal stem cell and autogenous bone graft in critical size mandibular defect	8, Scientific research publishin, impact factor 0,85	Journal of Biomedical Science and Engineering (JBiSE).
<b>B. National Journals – Published</b>				
1	1998	Characterization of 39/40 kDa of Borna virus infected Cells.	6	Journ. of Ind. Trop. Disease.
2	1999	Protein characterization of Dengue virus (DEN-3) Surabaya isolate	5	Journ. of Indonesia Tropical Disease.
3	1999	Neurobiological of Borna disease virus infected astrocyte cells,	11 No.9	Journ. of Vet. Med. Vol. 11: 109 –115
4	2000	Characterization of protein envelope (E) protein of Dengue virus isolate	5	Indonesia. Jour. of Biol. Sci..

5	2001	Humoral and cellular immune response to white mouse ( <i>rattus-rattus</i> ) which has been immunization with E virus dengue Protein	17	Vet.Med. Jour.
6	2001	Expression of interleukin-6 with <i>eschericia coli.</i> system	17	Vet.Med. Jour..
7	2001	Hibridisation limfoblast with sel myeloma cells of mice ( <i>mus musculus</i> ) for monoclonal antibody Dengue (DEN-1) virus.	18	Vet.Med. Jour.
8	2001	Early Study of laboratorious test to inactive vaccine of Salmonella pullorum by measurement of antibodies titers on post vaccinated	2	J. Penel. Med. Eksakta
9	2002	Immunization E protein recombinant in macaca fascicularis induce resistance to Dengue virus challenge.	18	J. Biol. Research
10	2002	Isolation and characterization of E virus Dengue protein isolated from area of Surabaya to be used as diagnostic kitt.	3	J. Penel. Medika Eksakta
11	2002	Challenge of dengue virus by <i>Macaca fascicularis</i> immunized with E protein recombinant.	18	Vet.Med. Jour..
12	2003	Characterization of protein receptor DHF specific on endothelial cell infected dengue virus Indonesia isolate	14	J. Ind. Trop. Disease
13	. 2003	65 kDa specific oral mucosa mulut on RAS induce respons immune sytemic	14	J. Ind. trop. Dis.
14	2003	Intranuclear localization of P24 and P40 of Borna disease virus (BDV) in oligodendrites cells defined by antibodies and their pathogenic potential.	17	J. Ind. trop. Dis.

15	2003	Antigenic relationship and molecular characterization of two proteins specific of Borna disease virus .	14;1	J. Ind. trop. Disease
16	2004	Immun respons and molecul kinetic molecul of H-isolat of virus Borna in Kelinci.	20	Vet. Med. Jour., 20: 81-87.
17	2004	P24 and P40 squence characterization of human Borna virus infection	19	Vet. Med. Jour.
18	2004	protein reseptor characterization dengue virus in endotelial cells of aorta rabbit infected dengue virus Indonesia isolate.	18	Vet.Med. Jour.
19	2008	Deteksi Protein <i>Bovine Major Histocompatibility Complex</i> Klas I dan Klas II pada Sapi Madura	9:3	Jurnal Veteriner
20	2010	Analysis of Precore and core promotor mutation of hepatitis B virus in patients with chronic hepatitis B in Surabaya, Indonesia.	4	Journal of Indonesia, Microbiology,
21	2010	Characterization of CD4+ T lymphocyte from bone marrow stem cell using indirect immunofluorescence for HIV and AIDS treatment	1	Indonesian Journal of Tropical and Infectious Disease
22	2014	Ekspresi protein P53 dan HSP70 pada sel punca karsinoma nasofaring yang resisten terhadap radioterapi	44:2	ORLI
<b>C.</b>	<b>Under Review</b>			
1.	2015	Novel of VH and VL hybrid on the neutralizing potential and binding to DENV-1,2,3,4 infected FR-BMMSCs (mesenchymal stem cells derived bone marrow).		Vaccine (Elsevier)
2	2015	Potential of proliferation and differentiation MSC to hepatocyte derived amnion membrane stem cell		Stem Cell, Research and Therapy USA
3	2015	Potential of proliferation and diferensiasion MSC to cardiomyocyte derived plasenta stem cell		Stem Cell, Research and Therapy, USA

4	2015	Potential proliferation dan differentiation MSC to neuron derived adipose stem cell		PlosOne, USA
<b>D. International Conferences</b>				
1	1995	Borna disease virus infections in cattle and their epidemiological implication	Jahrestagung der Gesellschaft foer Virologie, Giessen	
2	1996	Erstisolierung von humanen Bornavirus aus blutzellen psychiatrischer Patienten	Jahrestagung der Gesellschaft foer Virologie, Jena, Germany	
3	1996	Isolation of human borna disease virus	Xth International congress of Virology, Jerusalem, Israel	
4	2003	The clinical secondary immune response pattern Dengue virus infection in East Java and Jakarta Indonesia.	Asia pacific congress Medical Virology, Dec	
5	2002	Profil IgM and IgG on mice Balb/C immunized with E Protein rekombinan virus Dengue and Baculovirus.,	Int. Congress., Santiago, Chili	
6	1999	Pathogenesis model of dengue virus infected cells culture. International	Seminar on Tropical disease at TDC-Airlangga University, Surabaya in collaboration with JSPS Japan.	
7	1999	Detection of dengue virus by polymerase chain reaction ( <i>grnomic typing</i> ).	Seminar in Collaboration with JSPS. Japan.	
8	1999	Protein E is once alternative as an candidate vaccine clone subunit againt Dengue virus Indonesia isolate.	International Seminar on DHF at TDC Unair collabotaion with JICA	
9	2004	Characterization DHF specific receptors endothelial cells infected Indonesian isolate	International Biotechnology Congress, Denpasar, Bali.	
10	2005	Immunization of macaca fascicularis with E protein recombinant induce resistance to Dengue virus challenge	Congres Pediatric, Beijing, China	
11	2005	Could interleukin-10 level be used Dengue virus infection cases	Kongres Pediatric, Santiago, Chilli	
12	2007	Avian Influenza Vaccination Suing Homolog Subtype	International Meeting AI-USA-Indonesia, Dirjen Peternakan, Deptan	
13	2013	Perspective of wild infection in cross Indonesia	ERASMUS University, Rotterdam, Holand, 13-15 Nov 2013	
14	2010	Research Development of Stem Cell and Tissue Engineering in Surabaya..	Congress. 13 <sup>th</sup> International Conference of Asia Pacific Association of Surgical Tissue Bank (APASTB) October 27 <sup>th</sup> – 30 <sup>th</sup> 2010. Bukit Tinggi, West Sumatra, Indonesia	

15	<b>2011</b>	Characterization of Lymphocyte resistance Human Bone Marrow Stem Cell for HIV therapy.	22 <sup>nd</sup> International Congress of European Animal Cell Technology (ESACT). Hofburg, Vienna Austria.
16	<b>2012</b>	Perspective of stem cell research in dentistry.	ASEAN plus and TOKUSHIMA Joint International Conference on “Strategic Achievement of Oral Sciences and Promotion of Quality of Life.
17	<b>2013</b>	Mesenchymal and Hemopoietic stem cell Modulated homing in injured Pancreas. MSC.	Adult Stem Cell Therapy and Regenerative Medicine, Cleveland Marriott Downtown at Key Center Cleveland, Ohio, USA.
18	<b>2013</b>	Cocultivation of Hemopoietic stem cell and BM-mesenchymal stem cell accelerated ted homing in injured pancreas, MSC,	Stem Cell Meeting, West Reserve University, Cleaveland, USA.
19	<b>2015</b>	Development of Tissue Engineering in Indonesia. 4th Scientific Meeting of Indonesian Hip and Knee Society (IHKS) The Golden Approach to Hip & Knee Issues: Preservation, Repair and Replacement”.	Agustus, 26 <sup>th</sup> – 30 <sup>th</sup> 2015 in Shangri-La, Hotel, Surabaya. Indonesia
20	<b>2015</b>	The role of stem cell in rejuvenation,	International conference on advance molecular Bioscience and biomedical engineering. Malang, East Java, August 13 <sup>th</sup> -14 <sup>th</sup> 2015.
21	<b>2015</b>	Treatment of Hypersensitivity: Are there role of stem cell for Therapy..	Seminar on Dutch Foundation, 29 October 2015
22	<b>2015</b>	The new route of stem cell application.	International seminar. Aston Hotel, June 2015 Semarang
23	<b>2015</b>	Potential differentiation of amnionmembran, placenta and adipose into neuron	International conference on stem cell management and biology , Pitsnanulok, Thailand

### **VIII. MEMBERSHIP**

1. Esact (European Society Animal Cell Technology)
2. Assosiasi sel Punca Indonesia (Indonesian stem cell assosiasion)
3. Perhimpunan Mikrobiology Indonesia (Indonesian Society for Microbiology)
4. Perhimpunan Dokter Hewan Indonesia

### **IX. RESEARCH SERVICES**

1. Reviewer International Journal of Microbiology
2. Reviewer Journal of Veterinary Medicine, Udayana University
3. Reviewer Journal of Indonesia Tropical Disease
4. Diagnostic of Infectious Disease
5. Reviewer research RISBIN-IPTEKDOK, Ministerial of Health, Indonesia

## X. BOOKS

No.	Year	Title	Number of Pages	Publisher
1.	1997	Bornaviren und Zellkulturen: Isolierung Infektioser humaner und animaler Bornaviren und Ihre Characterisierung	285	FU-Berlin Nr. 2032. 1997
2.	2003	Demam Berdarah Dengue: Tinjauan dan Temuan Baru (anggota)	240	Airlangga University Press.
3	2003	Metode Imunologi	286	Airlangga University Press,
4	2005	Virologi	270	Airlangga University Press,
4	2009	Stem Cell Exploration Methods of Isolation and culture.	86	Airlangga University press
5	2014	Stem Cell: haemopoietic, mesenchymal, and model application	315	Airlangga University press

Semua data yang saya isikan dan tercantum dalam biodata ini adalah benar dan dapat dipertanggung jawabkan secara hukum. Dan apabila dikemudian hari ternyata dijumpai ketidaksesuaian dengan kenyataan, saya sanggup menerima resikonya.

Surabaya, 3 Nov 20015

Mengetahui,

Menyatakan,

Ketua Departemen

Dosen

Didik Handijatno, drh., MS., Ph.D  
NIP. 195410181981031001

Prof. Dr. Fedik Abdul Rantam, drh.  
NIP. 195910031987011001