


CURRICULUM VITAE

BIODATA

	<p>Name Prof. Charles Muleke Inyagwa, Ph.D.</p> <p>Nationality Kenyan</p> <p>Passport No. A152105; ID/No.: 1170746.</p> <p>Postal address P. O. Box 536-20115, Egerton, Kenya.</p> <p>Telephone Mobile: + 254- (0)722 912 661</p> <p>E-mail address cimuleke@yahoo.com</p> <p>Date & Place of birth 21/3/59, Vihiga County</p> <p>Marital status Married with children</p> <p>Religious affiliation Christian~Protestant</p>	
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KEY QUALIFICATIONS AND CAREER OBJECTIVE

I am a graduate from the University of Nairobi with a B.V.M., and M.Sc. from Edinburgh University, U.K. and a Ph.D. in Veterinary Medicine from Nanjing Agricultural University, China. I am an Associate Professor in the Department of Veterinary Clinical Studies, and the founding Dean, Faculty of Veterinary Medicine and Surgery. I am also the pioneer coordinator, for the Agro Based Science Park initiative, a vision 2030 Flagship project for Egerton University. I have published several papers in referred journals and attended diverse scientific conferences and workshops both locally and abroad. Jointly with others, I have supervised two Ph.D. to completion. We are supervising another two Ph.D. and 5 - M.Sc. students at the moment. I have over 24yrs of university teaching experience with research expertise in molecular parasitology and immunology and preventive veterinary medicine. I am the External Examiner, University of Nairobi, Kenyatta University, Kisii University and Bukura Agricultural College. I believe my long stretch of service and expertise will benefit Kenyatta University in the improvement of teaching and curriculum delivery and examination quality assurance. I will perform my duties to my best as an External Examiner.

UNIVERSITY /COLLEGE EDUCATION

QUALIFICATION	UNIVERSITY/COLLEGE	DATES ATTENDED
Post Doctoral Research (Molecular Parasitology and Immunology)	Moredun Research Institute, Scotland, U.K	Oct., 2009 to March., 2010
Ph.D. Degree (Veterinary Medicine)	Nanjing Agricultural University, P.R.China	Sept., 2003 to Dec., 2006
M.Sc. Degree (Tropical Veterinary Medicine)	University of Edinburgh, Royal (Dick) School of Veterinary Studies, Scotland, U.K.	Oct., 1994 to Nov., 1995.

Bachelor of Veterinary Medicine (B.V.M.) Degree	University of Nairobi, Kabete, Kenya.	Sept., 1985 to Nov., 1989
Diploma in Animal Husbandry “with” Distinction	Egerton University, Njoro, Kenya.	Sept., 1978 to Nov., 1981

THESIS: M.Sc. and Ph.D.

Ph.D. Degree, 2006: Preventive Veterinary Medicine.

Thesis Title: *Molecular cloning and functional characterization of Haemonchus contortus HC58cDNA gene*, 2006. Supervisors: Prof Li Xiangrui, Prof. Zou Sixiang, Prof. Lu Chengping (Nanjing Agricultural University, P.R.China) and Prof. Roger K.Prichard, Parasitology Institute of McGill University, Canada.

Skills acquired : Genetic engineering and gene cloning.
: DNA vaccine development and vaccine trials
: Prevention, Control and Eradication of animal disease.

Master of Science Degree, 1995: Tropical Veterinary Medicine.

Thesis Title: *Strategies for the control of Fasciolosis in the Tropics*, 1995. Supervisors: Dr. Martyne Edelston; Dr. John Hammond and Dr. Keith Sumption: The University of Edinburgh, Royal (Dick) School of Veterinary Studies, Center for Tropical Veterinary Medicine, CTVM, , Scotland, U.K.

Skills acquired : Analysis of disease ecological factors
: Animal health database handling and investigations
: Project Planning and Economics
: Epidemiological Investigations in disease outbreaks

FIELD OF SPECIALIZATION

- 1) Veterinary Medicine Practice
- 2) Molecular Parasitology and Immunology;
- 3) Animal Biotechnology and Vaccine Development

EMPLOYMENT/ EXPERIENCE RECORD

YEAR	RESPONSIBILITY
2012 - Present	Founding Dean: Faculty of Veterinary Medicine and Surgery, Egerton University.
2014 - Present	Associate Professor, Egerton University. Responsible for teaching animal health and production courses to Diploma and B.Sc. students including supervision of graduate students.
2011 - 2013	Coordinator - Agro Based Science Park initiative, a vision 2030 Flagship project for Egerton University.
2007 - 2014	Senior Lecturer, Egerton University. Responsible for teaching animal health and production courses to Diploma and B.Sc. students including supervision of graduate students.

2009 - 2012	Team Leader : curriculum development for the Bachelor of Veterinary Medicine and Surgery degree at Egerton University. The program was accredited by the Commission of University Education (CUE) in March, 2013.
2007 - 2012	Member, National task force for setting up curriculum benchmarks for Diploma in Animal Health training institutions in Kenya, appointed by the Kenya Veterinary Board, (KVB).
2002 - 2003	Chair - curriculum development committee that developed the B.Sc. Animal Health Management degree program at Egerton University. The program was accredited by the Commission of University Education (CUE) in March, 2013.
1997 - 2007	Lecturer, Egerton University. Responsible for teaching animal health and production courses to Diploma and B.Sc students and supervision of M.Sc. students.
1990 - 1997	Assistant Lecturer, Egerton University. Responsible for teaching and conducting practicals in Animal Health and Production courses to B.Sc and Diploma classes.
1981 - 1985	Animal Production Officer, Ministry of Livestock Development and Fisheries, Kenya.

PUBLICATIONS

REFEREED JOURNAL PAPERS PUBLISHED 2007 - 2013	
1.	C. I. Muleke ¹ , Yan Ruofeng ² , Sun Yanming ² , I. M. Osuga ³ , R. S. Shivairo ¹ , Li Xiangrui ² (Oct., 2013). Cellular Immune Response and Abomasum worm burden in Goats Vaccinated with HC58cDNA Vaccine against <i>H. contortus</i> Infection. <i>Advances in Life Science and Technology</i> www.iiste.org ISSN 2224-7181 (Paper) ISSN 2225-062X (Online), Vol.13, pp 26 -33.
2.	Muleke, C.I. , Maina, J.N., Osuga I. M., Mutai. J.K., Karubiu, N.K., Bebe, O. (2013). Lead and copper levels in the soil, water, serum and tissues of livestock feeding on dumpsite waste in urban slums of industrial towns in Western Kenya. April 2013, <i>Egerton Journal of Science and Technology</i> Vol. 13, Pages 11-20, ISSN-2073 - 8277.
3.	Ogeto T.K ¹ , Odhiambo R.A ¹ , Shivairo, R.S ¹ , Osero B.O ² , Anjili C ² , Ingonga J.M ² , Osuga I.M ³ Muleke C.I ¹ (Oct., 2013). Antileishmanial activity of <i>Aloe Secundiflora</i> plant extracts against <i>Leishmania Major</i> . <i>Advances in Life Science and Technology</i> www.iiste.org , ISSN 2224-7181 (Paper), ISSN 2225-062X (Online), Vol.13, pp 9 - 17
4.	Shivairo RS, Matofari J, Muleke CI and Migwi PK (2013). Emerging Parasitic Infections In Goats In Pastoral Systems In Kenya. <i>Journal of Biology, Agriculture and Healthcare</i> , www.iiste.org , ISSN 2224-3208, (paper), ISSN 2225-093X (Online), Vol. 3: Pages 63 – 66.
5.	R.S. Shivairo ¹ , L. M. Musalia ² , C.I. Muleke ³ , (Oct., 2013). Ethnoveterinary Knowledge And Practice Among The Pastoralists of Baringo District, Kenya. <i>Journal of Biology</i> ,

	<i>Agriculture and Healthcare</i> , www.iiste.org ISSN 2224-3208 (Paper), ISSN 2225-093X (Online) Vol.3, No.14., pp75 -77
6.	GuangWei Zhao, RuoFeng Yan, Charles I. Muleke , YanMing Sun, Li Xin Xu and XiangRui Li. (January 2013). Vaccination of goats with DNA vaccines encoding H11 and IL-2 induces partial protection against <i>Haemonchus contortus</i> infection, The British Veterinary Journal, Impact Factor - 3.0, Volume 191, Issue 1 , , Pages 94–100.
7.	Shivairo RS, Matofari J, Muleke CI , Migwi PK and Lugari E (2013). Molecular Identification Of Key Mastitis Causing Bacteria In Dairy Goats In Kenya. <i>Advances in Life Sciences and Technology</i> , www.iiste.org ISSN 2224-7181 (Paper), ISSN 2225-062X. Vol.10, pp 21-24.
8.	Shivairo RS, Matofari J, Muleke CI , Migwi PK and Lugari E (2013). Production Challenges And Socioeconomic Impact Of Dairy Goat Farming Among Small Holder Farms In Kenya. <i>Food Science and Quality Management</i> . www.iiste.org ISSN 2224-6088 (Paper), ISSN 2225 – 0557, Vol. 17: pp 54- 61,
9.	Shivairo RS, Matofari J, Muleke CI and Migwi PK (2013). Factors Influencing Somatic Cell Counts In In Goat Milk In Kenya. <i>Food Science and Quality Management</i> . www.iiste.org ISSN 2224-6088 (Paper), ISSN 2224-6088 Vol. 17: Pages 47 -53.
10.	Shivairo RS, Matofari J, Muleke CI , Migwi PK and Lugari E (2013). California Mastitis Test And Somatic Cell Counts As Indicators of Intramammary Infection Among Goats In Kenya. <i>Journal of Natural Science Research</i> , www.iiste.org ISSN 2224-3186 (Paper), ISSN 2225- 0921 Vol. 3, No.8. Pages 165 – 171.
11.	Essendi, M.W., Shivairo, R.S., Muleke, C.I., Yaw Afrane, Odhiambo, R.O. (2013). Epidemiological factors determining clinical malaria in the highlands of western Kenya: Case study of Iguhu Location. <i>Egerton Journal of Science and Technology</i> , Pages 25 – 43, ISSN-2073 8277, Volume 12.
12.	Osuga I. M., S. A. Abdulrazak, Charles I. Muleke and T. Fujihara. (2012). Potential Nutritive Value of Various Parts of Wild Sunflower (<i>Tithonia diversifolia</i>) as Source of Feed for Ruminants in Kenya. <i>Journal of Food, Agriculture and Environment</i> , JFAE Vol.10 (2) - April 2012. http://www.world-food.net/scientificjournal.php , pp632 - 635.
13.	Isaac M. Osuga, Shaukat A. Abdulrazak, Charles I. Muleke and Tsutomu Fujihara Effect of supplementing Rhodes grass hay (<i>Chloris gayana</i>) with <i>Berchemia discolor</i> or <i>Zizyphus mucronata</i> on the performance of growing goats in Kenya. <i>Journal of Animal Physiology and Animal Nutrition</i> ; Impact factor - 1.6; Manuscript ID JAPAN-Aug-10-234.R3 (Available online in May, 2011).

REFEREED JOURNAL PAPERS PUBLISHED 2004 - 2007	
14	Muleke C.I. , Ruofeng Y, Yanming S, Guangwei Z, Lixin X, Xiangrui L (2007). Vaccination of goats against <i>Haemonchus contortus</i> with recombinant cysteine protease. <i>Small Ruminant Research Journal</i> , 73(1-3), 95-102. (www.elsevier.com/locate/smallrumres)
15	Yanming S, Ruofeng Y, Muleke C.I. , Guangwei Z, Lixin X, Xiangrui L.(2007) Vaccination of goats with recombinant galectin antigen induces partial protection against <i>Haemonchus contortus</i> infection. <i>Parasite Immunology</i> , 29 (6): 319 (PIM-2006-0103).
16	Yanming S, Ruofeng Y, Muleke C.I. , Guangwei Z, Lixin X, Xiangrui L (2007) Recombinant galectins of <i>Haemonchus contortus</i> parasite induces apoptosis in the

	peripheral blood lymphocytes of goat. <i>International Journal of Peptide Research and Therapeutics</i> , 13 (3), 387-392 (DOI -10.1007/s10989-006-9045-0).
17] Yanming S, Ruofeng Y, Muleke C.I. , Guangwei Z, Lixin X, Xiangrui L (2007) Recombinant galectins of <i>Hemonchus contortus</i> inhibit goat cytokine mRNA transcription of peripheral blood mononuclear cells. <i>Scientia Agricultura Sinica</i> , 40 (8), 1802-1808.
18	Muleke C.I. , Ruofeng Y, Lixin X, Yanming S, Xiangrui L (2006) Characterization of HC58cDNA, a putative cysteine protease from the parasite <i>Haemonchus contortus</i> . <i>Journal of Veterinary Sciences</i> , 7(3): 249-255
19	Muleke C.I. , Ruofeng Y, Lixin X, Xinwen B, Xiangrui L (2006) Cloning and sequence analysis of <i>H. contortus</i> HC58cDNA gene. <i>Mitochondrial DNA (Formerly - Journal of DNA Sequence and Mapping)</i> , 18 (3): 176-183.
20	Bucai Z, Yijian Y, Muleke C.I. Xiangrui L. (2005) Progress on drug-resistance in chicken coccidiosis. <i>Chinese Journal of Veterinary Drug</i> , 39 (11): 39-42.

PATENTS

The complete coding sequence of the adult *Hemonchus contortus* HC58cDNA gene, deposited at GenBank Accession No. AY948978 : **Muleke C.I.** and Xiangrui L (2006).

OUTREACH/ EXTENSION PUBLICATIONS:

- [1] Artificial Insemination Training **Manual** for A.I. Course at Egerton University, 2011.
 [2] **Outreach Poster:** Food Safety Risks of Livestock Feeding Practices in Urban Slums of Industrial Towns in Western Kenya, 2010. Muleke, C.I., Karubiu, N.M., Bebe, B.O

RESEARCH EXPERIENCE

S/No	PROJECT TITLE	SPONSOR	AMOUNT
1	Food Safety Risks of Livestock Feeding Practices In Urban Slums of Industrial Towns in Western Kenya, 2009 - 2011. Key Activities: Determination of the Lead and copper levels in the soil, water, serum and tissues of livestock feeding on dumpsite waste in urban slums of industrial towns in Western Kenya.	Funded by Division of Research and Extension, Egerton University	US\$ 5,000
2	Studies on RNA interference in <i>Hemonchus contortus</i> parasite, 2009 – 2010 Key Activities: RNA interference of <i>Hemonchus contortus</i> <i>Astacin</i> gene by RNA interference and Silencing of <i>Caenorhabditis elegans</i> NAS 31 gene by RNA interference.	Funded by the Commonwealth Scholarship Commission, and tenable at Moredun Research Institute,	US \$50,000

		<i>Scotland, U.K as a Post Doctoral research fellow.</i>	
3	Antileishmanial activity of <i>Aloe Secundiflora</i> plant extracts against <i>Leishmania Major</i> , 2010 – 2013.: Key Activities: Determination of the <i>in vitro</i> antileishmanial activity of <i>A. secundiflora</i> water and methanolic plant extracts on <i>L. major</i> parasites. Specific objectives were; to determine the	<i>Funded by Division of Research and Extension, Egerton University; NCST and KEMRI</i>	US\$ 5,000
4	Biochemical and Molecular Identification of Key Pathogens Causing Mastitis in Dairy Goats on Smallholder Farms in Kenya, 2011 – 2013 Key Activities: Assessing how management practices impact on the udder health; Identifying the mastitis causing pathogens in dairy goats based on breed and agro-climatic zones. Molecular identification of key mastitis causing bacteria in dairy goats in Kenya.	<i>Funded By Heifer Kenya Programme; and Commission For Higher Education now "CUE".</i>	US \$ 5,000

GRADUATE STUDENT - SUPERVISION

STUDENT	THESIS TITLE	COMMENTS
R. Shavulimu Shivairo (Ph.D.). (Reg. No: KD11/0335/12)	Biochemical and Molecular Identification of Key Pathogens Causing Mastitis in Dairy Goats on Smallholder Farms in Kenya.	Successfully Defended and Passed Ph.D. thesis
Eunice N. Khaemba (Ph.D.).	Modelling the 2006 – 2009 Outbreak of Peste des Petits Ruminant (PPR) in Kenya – A practical application to real data. [Masinde Muliro University,].	Ongoing
Teresa Kerubo Ogeto (Reg.No: SM17/2737/10) (M.Sc.)	Antileishmanial activity of <i>Aloe Secundiflora</i> plant extracts against <i>Leishmania Major</i> .	Ongoing
Mageto Ombega James Reg. No: SM17/2861/10 (M.Sc.)	Epidemiological Studies On The Parasitic Causes Of Epilepsy In Hai And Ifakara Areas Of Tanzania	Ongoing
Wekesa Antony Wanyonyi (Reg. No: SM17/2792/10) (M.Sc.)	Prevalence Of Intestinal Helminth Infections In Pregnant Women Attending Antenatal Clinic At Kitale District Hospital Kenya.	Ongoing

Mokua Dennis Okari (Reg. No: SM17/3060/11)	Studies on the Prevalence of Soil Transmitted Helminthes among Pre-School Age Children In Elburgon, Kenya.	Ongoing
Nyakango Nyaboke Louise (Reg. No: SM 17/3297/12)	Prevalence and Intensity of Soil Transmitted Helminthes In Pre-school Children In Marani District, Kisii County, Kenya.	Ongoing

GRADUATE STUDENT – INTERNAL EXAMINAR

STUDENT	THESIS	DATES
Olivia Adhiambo Njiri (SM17/2024/07)	Internal Examiner: Post - treatment Prevalence of Schistosomosis and Concurrent Geohelminthic Infections in Human Risk Groups Along Lake Victoria.	2007 - 2010
Cornellius K. Kipyegon (SM17/1958/07)	Internal Examiner: Prevalence of gastrointestinal parasites in HIV positive patients in Baringo, Kenya	2007 - 2010
Emmily Chepchumba Ng'etich SM17/1327/04	Internal Examiner: Co-infection with <i>Plasmodium falciparum</i> ; <i>Schistosoma mansoni</i> and soil-transmitted helminths: The effect on haemoglobin concentration among school age children in Kisumu municipality, Kenya	2004 - 2007
Serem Erick Kibichy SM17/2201/08	Internal Examiner: Determination of the Ant-Inflammatory and Hepatoprotective role of <i>Solanum nigrum</i> L. crude extracts (SNE) in <i>Trypanosoma brucei rhodesiense</i> infected mice.	2008 - 2011
Kimani Tabitha Mugathi (M.Sc.).	Internal Examiner: Cost effectiveness and economic benefits of Rift Valley Fever and control options from a multi-sectorial perspective in Kenya: Exploring the one health approach.	2007 - 2009
Mbithia J.M. (M.Sc.).	Internal Examiner: Evaluation of production practices and development of breeding objectives for pigs in Kenya.	2007 - 2010
Kaingu, F.B. (M.Sc.).	Internal Examiner: Prevalence of Gastrointestinal helminthes and coccidia in indigenous chicken from different agro-ecological zones in Kenya.	2007 - 2010
Elick Onyango Otachi (M.Sc.).	Internal Examiner: Studies on the prevalence of protozoan and helminthes parasites in Nile Tilapia <i>Oreochromis</i>	2007 - 2009

	<i>nilotica, L)</i> from central and eastern provinces of Kenya.	
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HONORS AND AWARDS

YEAR	AWARD/HONORS
2009-2010	Commonwealth Merit Academic Post- Doctoral Fellowship Award , at Moredun Research Institute, Scotland, U.K
2008-2010	Research Award -Egerton University Division of Research and Extension, \$5000.00
2003-2006	Chinese Government Scholarship Award , to undertake Ph.D. studies at Nanjing Agricultural University, China
Nov, 2005	Doctoral forum of China, 2005 Award, First Prize “for Best Research Innovations
1999-2002	Egerton University, Vice Chancellor Excellence Award , “for Best Agricultural Shows Organization
1994-1995	Commonwealth Academic Staff Merit Scholarship Award , to undertake M.Sc. at Edinburgh University, U.K
1985 -1989	Kenya Government Scholarship Award to undertake a Bachelor of Veterinary Medicine degree, University of Nairobi, Kenya
July 1981	Diploma Award in Animal Husbandry with DISTINCTION
1978-1981	European Union Merit Scholarship Award to pursue a Diploma in Animal Husbandry, Egerton University, Kenya.

PROFESSIONAL AFFILIATIONS

Registered Veterinary Surgeon :	Kenya Veterinary Board [Reg. No.: 002355]
Member:	Kenya Veterinary Association
Member:	The Agricultural Society of Kenya

LANGUAGE PROFICIENCIES

Languages: Fluent in written and spoken English, Swahili, and Luhya languages.
Can verbalize basic Chinese and Kikuyu and Luo language.

CONFERENCES AND WORKSHOPS ATTENDED, SINCE 2004

NO	CONFERENCES AND VENUE
1	National Multiplication Training on Curriculum Development and Review Training Workshop for the Newly Chartered Public Universities, Nakuru, Kenya , Implementaion and accreditation, organized by Commission for University

	Education and DAAD, from 2nd – 4th Dec., 2013 , in Nakuru, Kenya.
2	Kenya Veterinary Association (KVA) Scientific Conferences, attended since 2007 – 2013 .
3	Egerton University research week and scientific conferences, attended since 2007 - 2013
4	Integrity Promotion Workshop ARC Hotel, 3rd November, 2011
5	RNA interference conference, Oxford University, U.K., 16th -18th /March, 2010 .
6	CCAA- Supported Conference on Pastoralism and Climate Change Adaptation in Africa, Utafiti Complex, Egerton University, Kenya, 24th -28th , May, 2010 .
7	Intellectual Property Workshop for researchers in Research and development institutions, Bontana Hotel, Nakuru, Kenya, 27th – 28th August, 2009 .
8	Thesis Research proposal development for RUFORUM supported Masters students, 16th – 20th March, 2009 .
9	Environmental Conservation week 3rd – 9th : Conserving our Environment for Peace Building, Reconciliation and Sustainable Development, 2009 .
10	United Nations Environment Programme -Training on on-line access to research in the environment, 12th – 13th August, 2008 .
11	Cummings School of Veterinary Medicine at Tufts University (Grafton Campus), U.S.A., May 22nd - 25th, 2007 . Paper presentation: Molecular Cloning and Functional Characterization of HC58cDNA, isolated from <i>Haemonchus contortus</i> . Parasite
12	Doctoral Forum of China, Nov, 25, 2005, Nanjing Agricultural University, China . Paper presentation: Cloning and sequence analysis of <i>H. contortus</i> HC58cDNA gene
13	The XIXTH International Congress of Zoology, August 23 – 27, 2004, Beijing, China . Paper presentation: Isolation and characterization of five Sarcocysts spp. from wild rodents in South West of P.R.China.

SIGNIFICANT CONTRIBUTION TO THE UNIVERSITY AND NATION

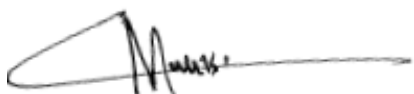
- i. **External Examiner**, University of Nairobi, Kenyatta University, Kisii University and Bukura Agricultural College.
- ii. **Biography Published** in “*Marquis who’s Who ~ Science and Engineering*” 2011–2012, 1st Edition, published by *Marquis Who’s Who* in America.
- iii. **Coordinator** - Agro Based Science Park, a vision 2030 Flagship project for Egerton University, 2011 – 2013.
- iv. **Coordinator:** Curriculum Development for the Bachelor of Veterinary Medicine and Surgery Degree at Egerton University.
- v. **Paper Reviewer** of the African Journal of Agricultural Research (2009 - present).
- vi. **Paper Reviewer** of the International Journal of Peptide Research and Therapeutics (2008 - Present).
- vii. **Paper Reviewer** of the Egerton Journal (2007 - Present).
- viii. **Member: National Task Force** for developing curriculum benchmarks for Diploma in Animal Health training institutions in Kenya, 2007 – 2012.
- ix. **Member-Board of Governor’s** : Mudavadi Girls High School, (2009 - Present).

RESEARCH INTERESTS

- Animal parasite genes discovery and their functional validation.
- Animal Vaccines Development.
- Preventive Medicine and Human Health (zoonoses).
- Veterinary Education.

ACADEMIC REFEREES

1. **Prof. Alexander K. Kahi, (Dr.Sc Agr)**
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2. **Prof. Li Xiangrui, Ph.D.**
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3. **Prof. David Knox, Ph.D.**
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Signature of Staff Member

Date 24th April, 2014