

## Website Information



**Dr. Md. Mostofa Kamal**

DVM, MS (Microbiology), PhD (Metabolic Programming)  
Project Director

Quality Control Laboratory Establishment project, DLS, Savar, Dhaka

## 1. General Information:

Name	Dr. Md. Mostofa Kamal
Designation	Project Director (Assistant Director of DLS)
BCS (Livestock) Batch	19 <sup>th</sup>
Date of Joining in Cadre Service	October 24, 1999
Date of joining in QC Lab	01. 07. 2017
NID	3222407130616
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## 2. Educational Qualification:

Institute	Certificate name	Result	Passing year
Ghent University, Belgium	PhD in Metabolic programming	Satisfactory	2017
Bangladesh Agricultural University, Mymensingh	MS in Microbiology	Grade A <sup>+</sup>	1999
Bangladesh Agricultural University, Mymensingh	DVM	First Class	1996
Gaibandha Govt. College, Gaibandha	HSC	1 <sup>st</sup> Division	1991
Saghata Pilot High School, Saghata, Gaibandha	SSC	1 <sup>st</sup> Division	1989

## 3. Field of Specialization: Microbiology, Reproduction

## 4. Publications:

### Books and Theses

1. **Kamal MM.** 2015. Pranisampad O Unnayan (Livestock and Development). Bangla Prokashon, Saghata, Gaibandha.
2. **Kamal MM.** 2014. Clinical Management of Postpartum Anoestrous Cows using Ultrasonography. PhD Dissertation, Department of Surgery and Obstetrics, Bangladesh Agricultural University, Mymensingh, Bangladesh.
3. **Kamal MM,** Rahman MS and Shohag AB. 2011. Postpartum Anestrus in Water Buffaloes: Bangladesh Perspective. LAP LAMBERT Academic Publishing, USA.
4. **Kamal MM.** 1999. Investigation on Microflora of the Uterine Discharge in Repeat Breeding Cows. MS Thesis, Department of Microbiology and Hygiene, Bangladesh Agricultural University, Mymensingh, Bangladesh.

Articles - A1 (articles published in international journals)

1. Van Eetvelde M, **Kamal MM**, Vandaele L, Opsomer G. 2017. Season of birth is associated with first lactation milk yield in Holstein Friesian. *Animal* 11(12): 2252-2259. DOI: 10.1017/S1751731117001021
2. **Kamal MM**, Van Eetvelde M, Vandaele L, Opsomer G. 2017. Environmental and maternal factors associated with gross placental morphology in dairy cattle. *Reproduction in Domestic Animals* 52(2): 251-256 DOI: doi:10.1111/rda.12887
3. Opsomer G, Van Eetvelde M, **Kamal MM** and Van Soom A. 2017. Epidemiological evidence for metabolic programming in dairy cattle. *Reproduction, Fertility and Development* 29: 52-57 DOI: <http://dx.doi.org/10.1071/RD16410>
4. Van Eetvelde M, **Kamal MM**, Hostens M, Vandaele L, Fiems LO and Opsomer G. 2016. Evidence for placental compensation in cattle. *Animal* 10 (8): 1342-1350 DOI: 10.1017/S1751731116000318
5. **Kamal MM**, Van Eetvelde M, Bogaert H, Hostens M, Vandaele L, M Shamsuddin and Opsomer G. 2015. Environmental factors and dam characteristics associated with insulin sensitivity and insulin secretion in newborn Holstein calves. *Animal* 9 (9): 1490-1499 DOI: <http://dx.doi.org/10.1017/S1751731115000701>
6. **Kamal MM**, Van Eetvelde M, Depreester E, Hostens M, Vandaele L and Opsomer G. 2014. Age at calving in heifers and level of milk production during gestation in cows are associated with the birth size of Holstein calves. *Journal of Dairy Science* 97 (9): 5448-5458 DOI: <http://dx.doi.org/10.3168/jds.2014-7898>
7. Depreester E, **Kamal MM**, Van Eetvelde M, Hostens M, Opsomer G. 2014. Maternal and environmental factors associated with the birth weight of Holstein calves. *Vlaams Diergeneeskundig Tijdschrift* 83 (1): 3-13 URL: <http://vdt.ugent.be/sites/default/files/artikel01.pdf>
8. **Kamal MM**, Bhuiyan MMU, Parveen N, Momont HW and Shamsuddin M. 2014. Risk Factors for postpartum anestrus in crossbred cows in Bangladesh. *Turkish Journal of Veterinary and Animal Sciences* 38 (2): 151-156 DOI: <http://dx.doi.org/10.3906/vet-1303-74>
9. Rahman MB, **Kamal MM**, Rijsselaere T, Vandaele L, Shamsuddin M and Van Soom A. 2014. Altered chromatin condensation of heat-stressed spermatozoa perturbs the dynamics of DNA methylation reprogramming in the paternal genome after in vitro fertilisation in cattle. *Reproduction, Fertility and Development* 26 (8): 1107-1116 DOI: <http://dx.doi.org/10.1071/RD13218>
10. **Kamal MM**, Opsomer G, Parveen N, Momont HW and Shamsuddin M. 2013. Comparative efficacy of the synchrony programmes in subestrus crossbred cows at smallholder farms in Bangladesh. *Journal of Applied Animal Research* 41 (4): 448-454 DOI: <http://dx.doi.org/10.1080/09712119.2013.792736>
11. Rahman MS, Shohag AB, **Kamal MM**, Bari FY and Shamsuddin M (2012). Preovulatory follicular and subsequent luteal size influence pregnancy success in Water buffaloes. *Journal of Reproduction and Development* 58 (2): 219-222. DOI: <http://dx.doi.org/10.1262/jrd.11-111T>

Articles - A2 (articles published in widely circulated scholarly or scientific journals)

1. Van Soom A, Vandaele L, Goossens K, Heras S, Wydooghe E, Rahman MB, **Kamal MM**, Van Eetvelde M, Opsomer G, Peelman L. 2013. Epigenetics and

the periconception environment in ruminants. Proceedings of the Belgian Royal Academies of Medicine 2: 1-13.

2. **Kamal MM**, Rahman MM, Momont HW and Shamsuddin M. 2012. Underlying disorders of postpartum anoestrus and effectiveness of their treatments in crossbred dairy cows. Asian Journal of Animal Sciences 6(3): 132-139. DOI: <http://dx.doi.org/10.3923/ajas.2012.132.139>
3. Rahman MS, Shogag AS, **Kamal MM**, Parveen N and Shamsuddin M. 2012. Application of ultrasonography to investigate postpartum anestrus in Water Buffaloes. Reproductive Developmental Biology 36 (2): 103-108.
4. **Kamal MM**. 2010. A review on cattle reproduction in Bangladesh. International Journal of Dairy Science 5 (4): 245-252. DOI: <http://dx.doi.org/10.3923/ijds.2010.245.252>

#### Articles- A3 (articles published in national journals with peer review)

1. Pradhan MGA, Rahman MS, Kwon WS, Mishra D, **Kamal MM**, Bhuiyan MMU and Shamsuddin M. 2013. Duration of preservation affect the quality of chilled Black Bengal buck semen. Journal of Embryo Transfer 28 (2): 113-119. DOI: <http://dx.doi.org/10.12750/JET.2013.28.2.113>
2. Hoque MN, Talukder AK, **Kamal MM**, Jha AK, Bari FY and Shamsuddin M. 2011. Ovulation synchronization in Water Buffaloes guided by milk progesterone ELISA. Journal of Embryo Transfer 26 (2): 105-109.
3. Akter T, **Kamal MM**, Talukder AK, Akter Z, Bari FY and Shamsuddin M. 2011. Postpartum ovarian cyclicity of zebu cows in Bangladesh. VetScan 6 (1): Article 85. URL: <http://www.vetscan.co.in/v6n1/85-Postpartum-Ovarian-Cyclicity-Zebu-Cows-Bangladesh.htm>
4. Jha AK, Hoque MN, **Kamal MM**, Rahman MM, Bhuiyan MMU and Shamsuddin M. 2010. Prevalence of mastitis and efficacy of different treatment regimens on clinical mastitis in cows. SAARC Journal of Agriculture 8(1): 79-89. URL: [http://www.saarcagri.org/images/abook\\_file/sja\\_v\\_8\\_i\\_1.pdf](http://www.saarcagri.org/images/abook_file/sja_v_8_i_1.pdf)
5. Akter Z, Talukder AK, Akter T, Kabir MS, **Kamal MM**, BariFY and Shamsuddin M. 2010. Ultrasonographic examination of ovarian cyclicity in zebu cows of Bangladesh. Vet Scan 5 (2). Article 65. URL: <http://www.vetscan.co.in/v5n2/65-usg-study-ovary-cow.htm>
6. **Kamal MM**, Iqbal DMH and Khaleduzzaman ABM. 2009. Supplementation of maize-based concentrates and milk production in indigenous cows. Bangladesh Veterinarian 26 (2): 48-53. URL: <http://journals.sfu.ca/bd/index.php/BVET/article/view/4950/3960>
7. Rahman MA, Bhuiyan MMU, **Kamal MM** and Shamsuddin M. 2009. Prevalence and risk factors of mastitis in dairy cows. The Bangladesh Veterinarian 26 (2): 54-60. URL: <http://journals.sfu.ca/bd/index.php/BVET/article/view/4951/3961>
8. Uddin MA, **Kamal MM** and Haque ME. 2009. Epidemiological study of udder and teat diseases in dairy cows. Bangladesh Journal of Veterinary Medicine 7 (2): 332-340. URL: <http://www.banglajol.info/index.php/BJVM/article/view/6000/4701>
9. Trisha AA, Mostofa M, Bhuiyan AAM, Islam MS and **Kamal MM**. 2009. Efficacy of Raanivet in the immune response against Newcastle disease. International Journal of BioResearch 6 (1): 83-86. URL: <http://www.inri-net.org/arcive.html>

10. Alam MGS, **KamalMM** and Amin MM. 2007. Bacteria and fungi in uterine infections in cows. The Bangladesh Veterinarian 24 (1): 1-12
11. Parveen N, **Kamal MM**, Saha S and Choudhury KA. 2002. Characterization and antibiogram of *Staphylococcus aureus* isolated from market meat and food handlers. Indian Journal of Animal Sciences 72 (2): 195-196
12. Parveen N, **Kamal MM**, Saha S and Choudhury KA. 2001. Characterization and antibiogram of *Staphylococcus aureus* Isolated from mastitic milk. Bangladesh Veterinary Journal 35 (1-2): 29-33
13. **Kamal MM**, Parveen N, Saha S and Amin MM. 2001. Bacteriological study on uterine discharge in repeat breeder cows. Bangladesh Veterinary Journal 35 (1-2): 49-52
14. Parveen N, **Kamal MM**, Choudhury KA and Saha S. 2000. Studies on pathogenicity of *Staphylococcus aureus* isolated from dermatitis lesions of cattle. Bangladesh Veterinary Journal 34 (1-2): 17-21
15. **Kamal MM**, Parveen N, Amin MM and Alam MGS. 1999. Mycoflora in the uterine exudate of repeat breeder cows. Bangladesh Veterinary Journal 33 (3-4): 83-86

#### Magazine Publications

1. কামাল এমএম। জুন-জুলাই ২০১৬। বাংলাদেশে দুধ উৎপাদনের বর্তমান অবস্থা ও আমাদের করণীয়। খামার ২২ (৩-৪): ২২-২৪।
2. কামাল এমএম। মে ২০১৬। বাংলাদেশে প্রাণিসম্পদ সম্পর্কিত সম্ভাবনাময় শিক্ষা ও কর্মকাঠামো। খামার ২২ (২): ২১-২৮।
3. কামাল এমএম। আগস্ট ২০১৫। গরু মোটাতাজাকরণে স্টেরয়েড ব্যবহার প্রসংগ এবং আমাদের করণীয়। খামার ২১ (৫): ৬-১২।
4. **Kamal MM** (2002). Pathogenesis of Mycoplasmosis in Poultry. SIAC Newsletter 12(4): 4-6

#### 5. In-Country Training Information

No.	Course Title	Name of Institution	Duration		Remarks
			From	To	
<b>A</b>	<b>Fundamental Topics</b>				
1.	Foundation Training Course	Bangladesh Public Administration Training Centre (BPATC), Savar, Dhaka	02/08/2000	29/11/2000	4 Months
2.	Poverty Alleviation Strategies	Rural Development Academy, Bogra	23/09/2000	28/09/2000	8 days
3.	Enhancing Training Quality and Facilitation Skills	MDC-Bangladesh, Dhaka	01/11/2006	05/11/2006	5 days
4.	Organization and business management	Department of Agricultural Extension, Dhaka	04/02/2009	05/02/2009	2 days
5.	Data analysis: MStatc	Graduate Training	17/01/2010	28/01/2010	12 days

	and SPSS	Institute, Bangladesh Agricultural University, Mymensingh			
6.	Public Procurement	PPRP-II AF project of CPTU	28/08/2016	30/08/2016	3 days
7.	Management Information System	Udemy	01/11/2016	24/12/2016	7.5 hours online course
8.	MS Office - Advanced - Efficiency Training	Udemy	24/12/2016	07/01/2017	2.5 hours online course
<b>B</b>	<b>Livestock-related Topics</b>				
1.	Coordination and integration of Reproductive Health	Government-BPATC	12/10/2000	14/10/2000	2 days
2.	Commercial Poultry Production Practices	Department of Livestock Services (DLS)	17/11/2002	21/11/2002	5 days
3.	Goat Production and Management	Bangladesh Livestock Research Institute (BLRI)	21/06/2003	25/06/2003	5 days
4.	Poultry Disease Diagnosis	Government of Bangladesh	26/06/2003	30/06/2003	5 days
5.	Methodology of Progeny Testing	Department of Livestock Services (DLS), Dhaka	22/02/2007	27/02/2007	6 days
6.	Avian Influenza Outbreak Management	Department of Livestock Services (DLS), Dhaka	12/06/2007	13/06/2007	2 days
7.	Culling, safe disposal, bio-containment and security	Department of Livestock Services (DLS), Dhaka	25/06/2008	26/06/2008	2 days
8.	Sheep Production and Management	Bangladesh Livestock Research Institute (BLRI)	19/10/2008	21/10/2008	3 days
9.	Animal welfare at slaughter and killing for disease control	Better Training for Safer Food of European Commission	09/05/2016	27/05/2016	9 hours online course

## 6. Foreign Training:

No.	Course Title	Name of Institution	Duration		Remarks
			From	To	
1.	Basic Course on Veterinary Epidemiology	Ghent University, Belgium	12/09/2011	23/09/2011	2 Weeks
2.	Low Countries Studies	Ghent University, Belgium	16/02/2012	31/05/2012	Weekly, 12 evenings
3.	Logistic Regression	Ghent University, Belgium	24/04/2012	29/05/2012	5 days
4.	VIBes in Biosciences	Flemish Training Network in Life Sciences, Belgium	05/09/2012	07/09/2012	3 days

## 7. Participation in Seminar/Symposium/ Conference:

Abstracts published in international conferences (oral or poster presentation):

1. **Kamal MM**, Rahman MB, De Koster J, Van Eetvelde M, Van Soom A and Opsomer G. Chromatin of germinal vesicle is hypomethylated in fat cows compared to cows of moderate body condition. Proceeding of the 1<sup>st</sup> General Meeting of Epiconcept, Antalya, Turkey 24<sup>th</sup>-25<sup>th</sup> April 2013, page 119
2. Rahman MB, **Kamal MM**, Rijsselaere T, Vandaele L, Shamsuddin M and Van Soom A. 2013. Altered chromatin conformation in bovine spermatozoa perturbs dynamic DNA methylation in the male pronucleus after fertilization in vitro. Proceedings of the 39<sup>th</sup> Annual Conference of the International Embryo Transfer Society (IETS), Hannover, Germany, 19-22 January 2013. *Reproduction, Fertility and Development* 25 (1): 150. URL: <http://www.publish.csiro.au/paper/RDv25n1Ab6.htm>
3. **Kamal MM**, Opsomer G, Parveen N, Momont HW and Shamsuddin M. 2012. Body condition, suckling and calving season influence the prevalence of true anoestrus in postpartum crossbred cows in Bangladesh. Proceedings of the 15<sup>th</sup> AAAP Animal Science Congress, 26-30 November 2012, Thammasat University, Rangsit Campus, Bangkok, Thailand. pp 270.
4. **Kamal MM**, Opsomer G, Parveen N, Momont HW and Shamsuddin M. 2012. Farmers' skill and linkage to milk market influence the prevalence of anoestrus in postpartum crossbred cows in Bangladesh. Proceedings of the 15<sup>th</sup> AAAP Animal Science Congress, 26-30 November 2012, Thammasat University, Rangsit Campus, Bangkok, Thailand. pp914.
5. **Kamal MM**, Van Eetvelde M, Opsomer G. 2012. Time of conception during lactation in Holstein cows influences the basal metabolic parameters and pancreatic  $\beta$ -cell function of the newborn calves. Proceeding of the 28<sup>th</sup> Scientific Meeting of the

- European Embryo Transfer Association, 7-8 September 2012, Saint Malo, France. pp 166.
6. Van Eetvelde M, **Kamal MM**, FiemsLO, OpsomerG. 2012. Pancreatic  $\beta$ -cell function of a newborn Belgian Blue calf is influenced by its birth weight and parity of the dam. Proceeding of the 28<sup>th</sup> Scientific Meeting of the European Embryo Transfer Association, 7-8 September 2012, Saint Malo, France. pp 222.
  7. **Kamal MM**, Van Eetvelde M, Vandaele L, Opsomer G. 2012. Pancreatic  $\beta$ -cell function is positively correlated with the size of newborn Holstein calves. Proceeding of the 16<sup>th</sup> Annual Conference of the European Society of Domestic Animal Reproduction (ESDAR), *Reproduction in Domestic Animals* 47 (5): 91.
  8. Van Eetvelde M, **Kamal MM**, Fiems LO, Opsomer G. 2012. Pancreatic  $\beta$ -cell function differs between Belgian Blue and Holstein calves. Proceeding of the 16<sup>th</sup> Annual Conference of the European Society of Domestic Animal Reproduction (ESDAR), *Reproduction in Domestic Animals* 47 (5): 112.
  9. Opsomer G, **Kamal MM**, Van EetveldeM, VandaeleL, Hostens M. 2012. Placental development in Holstein cattle is correlated with dam characteristics and  $\beta$ -cell function of the newborn calf. Proceeding of the 16<sup>th</sup> Annual Conference of the European Society of Domestic Animal Reproduction (ESDAR), *Reproduction in Domestic Animals* 47 (5): 69.
  10. Shamsuddin M, Hoque MM, **Kamal MM**, Rahman MM, Goodger WJ, Momont H, Frank G and Akhteruzzaman M. 2010. Productivity veterinary services and milk marketing through communities increase milk production and farmers income. In the proceedings of 'International Symposium on Sustainable Animal Production in the Tropics: Farming in a Changing World', 14-18 November 2010, Guadeloupe, France. *Advances in Animal Biosciences* 1 (2): 516-517 URL: [http://journals.cambridge.org/abstract\\_S2040470010001317](http://journals.cambridge.org/abstract_S2040470010001317)
  11. **Kamal MM**, Rahman MM, Momont HW and Shamsuddin M. 2010. Double insemination with intrauterine antibiotic improves conception in repeat breeding dairy cattle. International Dairy Conference 2010, Bangladesh Agricultural University, Mymensingh, Bangladesh, 03-05 April 2010. pp 56
  12. Rahman MM, **Kamal MM**, Jha AK, Hoque MN, Shamsuddin M and Bhuiyan MMU. 2010. Management and effective treatment of postpartum anoestrus cows guided by ultrasonography. International Dairy Conference 2010, Bangladesh Agricultural University, Mymensingh, Bangladesh, 03-05 April 2010. pp 55-56
  13. Hoque MN, **Kamal MM**, Rahman MM and Shamsuddin M. 2010. Evaluation of ovulation synchronization protocols for timed insemination in water buffaloes (*Bubalis bubalis*). International Dairy Conference 2010, Bangladesh Agricultural University, Mymensingh, Bangladesh, 03-05 April 2010. pp 55
  14. **Kamal MM**, Amin MM and Alam MGS. 1999. Microflora of the Uterine Discharge in Repeat Breeding Cows. International Conference on Sustainable Animal Production, Health and Environment: Future Challenges, CCS Haryana Agricultural University, Hisar-125 004, India. 24-27 November 1999. pp 136

Abstracts published in national conferences (oral or poster presentation):



1. **Kamal MM**, Rahman MB, De Koster J, Van Eetvelde M, Van Soom A, Opsomer G. 2013. The chromatin of the germinal vesicle is hypomethylated in fat cows compared to cows of moderate body condition. VFS meeting 'Voorjaarsvergadering' Zebrastraat 32 Ghent on 17 May 2013 as oral presentation.
2. **Kamal MM**, Momont HW, Opsomer G and Shamsuddin M. 2011. The importance of interactions among animal, herd and managerial factors on postpartum anestrus in crossbred dairy cows. Proceedings of the Vet2011 Celebration in Bangladesh, BAU, Mymensingh, 09-10 Feb 2011, pp 53
3. Islam MT, Rahman MM, **Kamal MM**, Haque MM and Shamsuddin M. 2011. Community-based productivity veterinary services for sustainable development of dairying in Bangladesh- Satkhira and Sirajgonj experience. Proceedings of the Vet2011 Celebration in Bangladesh, BAU, Mymensingh, 09-10 Feb 2011, pp 58
4. **Kamal MM**, Rahman MM, Jha AK and Shamsuddin M. 2010. Prevalence of postpartum anoestrus and effectiveness of its treatment in crossbred cows. Sixteenth Annual Scientific Conference, Shilpachariya Zainul Abedin Auditorium, Bangladesh Agricultural University, Mymensingh, Bangladesh. 6-7 February 2010. pp 39-40