#### Dr. SUNIL KUMAR MOHAPATRA

C/o- Gangadhara Mohapatra,

P.O.- Balia, P.S.- Industrial area police station, Tahasil- Remuna,

District- Balasore, State-Odisha (India).

PIN-756056

DOB – 9<sup>th</sup> May, 1993

**2**: 9040419774 / 8569828633

**%:** sunilium46@gmail.com / sunilium46@rediffmail.com



## ACADEMIC QUALIFICATION

	Period	of Study		University/	Percentage					
Qualification	From	То	Subjects	Board	of marks / OGPA	Division				
Ph.D.	2018	2022	Animal Biochemistry	National Dairy Research Institute, Karnal	8.41/10	First class				
M. V. Sc.	2016	2018	Animal Biochemistry  National Dairy Research Institute, Karnal		Animal Research 8.76/10		Animal Research 8.76/1		8.76/10	First class with Distinction
B. V. Sc. & A.H	2011	2016	Animal Science and Veterinary Science	Orissa University of Agriculture and Technology, Bhubaneswar	8.092/10	First class with Distinction				
S. S. C. E	2009	2011	Physics, Chemistry, Maths, Biology, English, General Studies	Chemistry, Maths, Biology, English,  K.V. Balasore/ CBSE		First class (3 <sup>rd</sup> position in school)				
S. S. E	2008	2009	English, Hindi Maths, Science, Social Science	K.V. Balasore/ CBSE	87.8%	First class				

### **VISION & OBJECTIVES**

 To acquire zenith in the field of science and apply this knowledge in the welfare of animal and human race.

#### M. V. Sc. DISSERTATION

- ✓ Completed one year of research work (August, 2017- June 2018) during M.V.Sc. programme (August, 2016- June 2018) on the topic "Role of Probiotics on steroidogenesis and male fertility through *in vitro* approach"
  - **❖**Objectives of Research project-
  - 1. To investigate the effect of probiotics on viability and fertility related hormone in leydig/testicular cell line.
  - 2. To study the expression pattern of genes related to fertility in leydig/testicular cell lines.

#### Ph. D. DISSERTATION

✓ Completed two and half year (2.5 years) research work (August, 2019- December 2021) during Ph.D. programme (August, 2018- April, 2022) on the topic "Role of indoleamine-2,3-dioxygenase (IDO) on functionality of peripheral blood cells during pregnancy establishment in crossbred dairy cows"

#### **❖**Objectives of Research project-

- 1. To decipher the relation between indoleamine-2, 3-dioxygenase (IDO) expression and functionality of peripheral blood cells (PBMCs and Neutrophils) in pregnant and nonpregnant dairy cows.
- 2. To evaluate the influence of interferons (IFN $\tau$  and IFN $\gamma$ ) on indoleamine-2,3-dioxygenase (IDO) expression in PBMC and neutrophils *in vitro*.
- 3. To check the diagnostic potential of indoleamine-2,3-dioxygenase (IDO) for early pregnancy diagnosis.

#### **EXPERIMENTAL SKILLS**

- **Microbiology Skills:** Skilled with basic microbiology culturing techniques.
- Animal Cell Culture Techniques: Experience in handling and maintenance of ovarian cell
  line, Leydig cell line, mammary cells, liver cells, intestinal cells, neutrophils and lymphocytes
  (PBMCs).
- Biochemical Analysis: Experience in all basic biochemical tests, Spectrophotometry, Tissue homogenization and extraction, quantitative and qualitative analysis by UV-Visible spectrophotometer.

- Molecular Biology skills: Expertise in isolation of genomic DNA and total RNA, cDNA synthesis, RT-PCR, qPCR, Agarose gel electrophoresis, SDS-PAGE, Western blot, dot blot, Immunofluorescence, immunocytochemistry and ELISA.
- Bioinformatics: Primer Designing, phylogenetic analysis, retrieving gene and protein sequences from data bank, BLAST, Multiple sequence alignment CLUSTAL W, sequence homology,
- Small Animal Handling: Diet preparation and feeding. Expertise in handling rat, mice and
  rabbit including breeding, oral gavaging, i.p. injection etc., and dissection of small animals.
  Isolation of various organs and collection of peritoneal fluid as well as peripheral blood by
  cardiac puncture from small animals.
- Biological Sample Processing: Blood processing (expertise in isolation of neutrophils and lymphocytes from whole blood), estimation of different analytes in blood serum including BUN, creatinine, total protein, albumin, LFT, Lipid profile analysis, Blood glucose measurements etc.

#### **COMPUTER & STASTISTICAL SKILLS**

- ✓ Expertise in Windows, Microsoft Office (Word, Excel, Power Point).
- ✓ Ability to operate the software's required for conducting different Biochemical and other Laboratory techniques.
- ✓ Studied statistics courses at post graduate level i.e. "Software packages for statistical computing" which gave a foundation in designing experiments and using statistical tools to analyse research data.
- ✓ Expertise in **GraphPad-PRISM** statistical software for analysis of research data.

#### SEMINARS/CONFERENCES/SYMPOSIUM/WORKSHOP ATTENDED

Particulars	Topic	Duration (days)
	1. Bioprocessing India. (National Conference)	3
Seminar/ Conference/	2. Improvement of Small Ruminant Production System for Livelihood Security. (National Seminar)	2
Webinar	3. Proteomics for System Integrated Bio-omics, One Health and Food Safety. (International Conference)	3
	4. Impact of COVID-19 on dairy industry. ( <b>National Webinar</b> )	1
Symposium	1. New Generation Vaccines, Diagnostics For Improvement Of Animal Health And Productivity Vis-À-Vis Genomic Interventions For The Societal Benefit. (National	2

		Symposium)	
	2.	Strengthening of governance in animal health and production	
		activities for the benefit of farmers and livestock owners.	2
		(National Symposium)	
	1.	Mammalian Genome Editing by CRISPR Technique.	1
		(National Workshop)	1
	2.	Metabolomics: Basic Principles and Application. (National	3
		Workshop cum Training)	3
	3.	Practical Training Camp (Central Poultry Development	
		Organisation, Eastern Region, Bhubaneswar). (State level	10
Workshop/		training camp)	
Training	4.	International e-Training cum Orientation Programme on	
		"Physiological and Biotechnological Interventions for the	21
		Improvement of Production, Reproduction and Health Status in	21
		Animals". (International e-Training)	
	5.	National e-Training Programme on "Safety Security and	
		Quality Assurance of Food: Recent Updates". (National e-	10
		Training)	

# LIST OF RESEARCH PUBLICATIONS

S. No.	Name of the Author(s)	Title of the Research Paper/Review Article	Name of Journalwith Year, Volume & Page Number	NAAS Rating/IF	Number of citations
1.	Panda, B. S., Verma, A. K., Kapila, R., & Dang, A. K.	Implantation associated changes in expression profile of indoleamine-2, 3-dioxygenase 1, Th1-Th2 cytokines and interferon-stimulated genes on neutrophils and peripheral blood mononuclear cells of crossbred cows	Journal of Reproductive Immunology 2020, 142, p.103188.	NAAS- 10.05 (IF-4.054)	1
2.		Proteomics and transcriptomics study reveals the utility of ISGs		NAAS- 10.05	4

	Chaudhary, D.,	as novel molecules for early	Immunology	(IF-4.054)	
	Alhussien, M. N.,	pregnancy diagnosis in dairy	2020, 140,		
	Kapila, R., &	cows.	p.103148.		
	Dang, A. K.				
	Panda, B. S.,				
	Mohapatra, S. K.,	A comparative study on various		NAAG	
	Verma, A. K.,		Theriogenology		•
3.	Kamboj, A.,		2020, 157, 140-	8.74	2
	Alhussien, M. N.,	survivability in crossbred dairy	148.	(IF-2.740)	
	& Dang, A. K.	cows.			
	Mohapatra, S.,		Exploratory		
	Mohapatra, S. K.,	A comparative evaluation of the	Animal and		
4	Sarangi, S.,	Lead II Electrocardiogram in	Medical	NAAS-	1
4.	Jyotiranjan, T.,	young and adult crossbred cows	Research	5.85	1
	Sahoo, P. R., &	of Odisha.	2017, 7(1), 74-		
	Kundu, A. K.		76.		
	Surya, T.,		The Dhesses		
	Selvarani, R.,	A pilot study on identification	The Pharma		
5.	Singh, N. P.,	of infectious mastitogen	Innovation Journal 2021,	NAAS-	0
3.	Koloi, S., Mohan,	responsible for mastitis in		5.23	U
	M., &	Sahiwal and Karan Fries cows.	848.		
	Mohapatra, S. K.		040.		
	Panda, B. S.,	Amount of milk neutrophil	The Open		
	Mohapatra, S. K.,	percentage and associated CD	Biotechnology		
6.	Alhussien, M. N.,	molecular changes on the	Journal 2019,	IF-0.54	0
	& Dang, A. K.	compositional and technological	13(1).		
		properties of milk.	13(1).		
	Mohapatra, S. K.,		International		
	Nayak, V. K.,	Mitochondrial DNA: A	Journal of	NAAS-	
7.	Paul, A., &	Molecular Tool for Assessment	Livestock	5.36	0
	Adhikary, S.	of Genetic Diversity.	Research 2019,	3.30	
			9(8), 1.		
	Mohapatra, S. K.,	Alleviation of Fertility	Critical		
8.	Ranvir, S., Nikam,	Disorders Based on Probiotics	Reviews <sup>TM</sup> in	IF-1.238	0
	P., & David, J.	Induced Immune System	Biomedical		

Improvement: A Review.	Engineering	
	2019, 47(5).	

# LIST OF POPULAR ARTICLES

S.No.	Title	Authors	Year	No. of Pages	Vol. (Issue)	Publisher
1.	Dahi: The fertility	Sunil Kumar Mohapatra	May,	04		Indian
	protector!	and Gautam Kaul	2018	04		Dairyman
		Sunil Kumar Mohapatra,				
2.	Therapeutic potentials of	Sameni Deepika, Subrata	Oct.,	04	05	Indian
	Goat milk	Koloi , Narendra Pratap	2018	04	03	Farmer
		Singh and Abhishek Paul				
3.	Vaccination failure:	Sunil Kumar Mohapatra	Mar.,	02	16	Dairy
	Causes and prevention	and Sameni Deepika	2019	02	16	Planner
		Prachurya Biswal, Arun				
	W-16	Somagond, Seema Yadav,	M			Deim
4.	Welfare of animals	Priyanka Patoliya, Susheel	May,	05	16	Dairy
	during transportation	Kumar, Sunil Mohapatra	2019			Planner
		and S. Deepika				
5.	Common Respiratory	Sameni Deepika and Sunil	Feb.,	0.2	22	Poultry
	Diseases in Poultry	Kumar Mohapatra	2020	02	22	Planner
	New Insights into the					
	Diagnostic and Treatment	Nilendu Paul, <b>Sunil Kumar</b>	Г.1			Raksha
6.	Approaches for	Mohapatra and Abhishek	Feb.,	2020 04	IX	Technical
	Subclinical Endometritis	Paul	2020			Review
	in Cattle					
		Neela Madhav Patnaik,				
7.	The dichotomy of heat	Parag Acharya, Bibhudatta	T			D l 1
7.	stress and its effect on	S.K. Panda, <b>Sunil Kumar</b>	Jun.,	05		Pashusand
	dairy animals	Mohapatra and Arghyadeep	2020			esh
		Das				
	Antimicrobial Use in	Noolo Modkov Datasila				
0	Dairy Sector and	Neela Madhav Patnaik,	T1			Food and
8.	Resistance Issue: No	Bibhudatta S.K. Panda,	Jul., 2020	03	01	Scientific
	Action Today, No Cure	Arghyadeep Das and Sunil	2020			Reports
	Tomorrow!	Kumar Mohapatra				
9.	Immunomodulatory	Sunil Kumar Mohapatra,	Sep.,	01	01 (6)	The

	properties of colostrum of	Bibhudatta S. K. Panda,	2020			Marketeers
	dairy animals	Dheeraj Chaudhary, Aarti				
		Kamboj and Ajay Kumar				
		Dang				
	दूध के दैहिक कोशिकाओं	बिभुदत्त सामंत कुमार पंडा,				
10	की गिनती से दूध की	सुनील कुमार मोहपात्रा,	Sep.,	0.1	01 (6)	The
10.	गुणवत्ता में सुधार और दूध	आरती कम्बोज, अजय कुमार	2020	01	01 (6)	Marketeers
	के निर्यात में वृद्धि	डांग				
11.	Ethics related to use of animals in biotechnology	Barathiraja S., Mathivathani C and Sunil Kumar Mohapatra	April., 2022	02	24	Dairy Planner
12.	Gout in Poultry	Barathiraja S., <b>Sunil Kumar Mohapatra</b> and R. Sumanth Kumar	May., 2022	02	24	Poultry Planner
13.	Heat stress and strategies to mitigate heat stress in dairy cattle	Sunil Kumar Mohapatra, Sameni Deepika, Md. Mofijul Islam and Sanjeev Kumar	July., 2022	04	24	Dairy Planner

# **AWARDS & RECOGNITION**

S.	Name and Year of Award/	Awarding	Year of
No.	Medal/Fellowship/Scholarship	Institute/ body	Award
1.	2016 batch M.V.Sc. topper and awarded with merit		
	certificate for academic excellence in NDRI,	ICAR-NDRI	2019
	Karnal, Haryana.		
2.	Awarded with Junior Research Fellowship (JRF)	ICAR	2016
	during M.V.Sc. programme.	107110	2010
3.	Awarded with second best poster award in XXIII	Dept. of Clinical	
	Annual Conference of IAAVR & National	Medicine, College of	
	Symposium	Veterinary Science and	2016
		Animal Husbandry,	
		OUAT, Bhubaneswar	
4.	Awarded merit certificate in state level science quiz	Regional Science	2011
	competition	Centre, Bhubaneswar	2011
5.	Awarded merit certificate in National level science	Unified Council	2011

	talent search examination, 2011		
6.	School and city topper in 13 <sup>th</sup> National Science Olympiad, 2010 and received gold medal for the excellence.	Mational Caionas	2010
7.	School and city topper in 12 <sup>th</sup> National Science Olympiad, 2009 and received gold medal for the excellence.	Mational Caionas	2009

## **EMPLOYMENT RECORD (Starting from the Present Position)**

S.No.	Designation	Pay Scale/ Pay Band with Grade Pay	Name of University/ Institute	Period (From - To)	Duration (Years & Months)
1.	Assistant Professor	Rs. 15600- 39100 + AGP	Institute of Veterinary Sciences and Animal	01-06-2022 to	3 months
		Rs. 6000	Husbandry (IVS&AH), Siksha 'O' Anusandhan,	Till continue	
			Bhubaneswar-751003		
2.	Assistant Professor (On contract)	Rs. 57700/- (Consolidated pay)	Rajiv Gandhi Institute of Veterinary Education and Research (RIVER),	01-10-2021 to 31-05-2022	8 months
			Kurumbapet, Puducherry, 605009		

## LANGUAGES KNOWN

✓ English, Hindi and Odia.

### **ACHIEVEMENTS & EXTRA CURRICULAR ACTIVITIES**

- Secured first position in Western dance in 23<sup>rd</sup> All India inter-university youth festival, 24<sup>th</sup> 26<sup>th</sup>, April 2018 held at ICAR-NDRI, Karnal.
- Participated in various intra university cultural events and declared runner up in duet dance.
- Took distinguished part in the annual and Farewell function at College of Veterinary Science and Animal Husbandry, OUAT, Bhubaneswar, Odisha.

### **HOBBIES/PERSONAL ATRRIBUTES**

✓ Good team worker and gregarious.

- ✓ Playing basketball and badminton.
- ✓ Singing, dancing and listening to music.

**Declaration:** I hereby declare that all the above given information are true to the best of my knowledge and belief.

Sunil Kumer Mohapatra

(Sunil Kumar Mohapatra)