

## About research

### List of completed project :

| <b>Name of Department :Animal Genetics and Breeding</b> |                                |                                                                                                                        |                           |                            |
|---------------------------------------------------------|--------------------------------|------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------|
| <b>Sr. No.</b>                                          | <b>Name of the Student</b>     | <b>Title of Thesis</b>                                                                                                 | <b>Year of Completion</b> | <b>Name of the Advisor</b> |
| 1                                                       | Zafar Mohiuddin Ansari         | Effect of feeding enriched wheat straw with limited quantity of greens on digestibility of nutrients in Deoni cows     | 1977                      | S. G. Rotte                |
| 2                                                       | Arvind Laxmikantrao Sewlikar   | Age atfirst calving and first lactation yield of crossbred cattle under the intensive cattle development project Jalna | 1977                      | H. S. Bonde                |
| 3                                                       | Uday Dattatray Umrikar         | Genetic analysis of production and reproduction traits in Murrah buffaloes                                             | 1983                      | K S Deshpande              |
| 4                                                       | Gangadhar Kishanrao Ingole     | Breeding efficiency and its relationship with production and reproduction traits in Friesian x Sahiwal crossbreds      | 1984                      | K S Deshpande              |
| 5                                                       | Shrikant Vasantrao Gutte       | Genetic analysis of production, reproduction, production efficiency traits in Friesian x Sahiwal crossbreds            | 1984                      | K S Deshpande              |
| 6                                                       | Arunkumar Dhondopant Deshpande | Haeglobin polymorphism and its association with some economic characters in Sheep                                      | 1985                      | H. S. Bonde                |
| 7                                                       | Ashok Prabhakar Kulkarni       | Genetic studies on growth rate of Deccani sheep and its                                                                | 1985                      | K S Deshpande              |

|    |                                 |                                                                                                                                                                     |      |               |
|----|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------|
|    |                                 | crosses                                                                                                                                                             |      |               |
|    | Suresh Sayanna Yeotikar         | Genetic studies on production and production efficiency traits in village crossbreds                                                                                | 1989 | K S Deshpande |
| 8  | Kiran Sudhakar Rao Deshpande    | Genetic studies on production and production efficiency traits in Jersey cattle                                                                                     | 1991 | A D Deshpande |
| 9  | Krishna Shrinivas Rao Deshpande | Genetic and phenotypic evaluation of Friesian x Sahiwal crossbreds                                                                                                  | 1991 | H. S. Bonde   |
| 10 | Yesu Murli Dhar                 | Genetic studies on production and production efficiency traits in Murrah Buffalo                                                                                    | 1993 | K S Deshpande |
| 11 | Dedashurushottam Rao Deshmukh   | Genetic studies on production and production efficiency traits in Jersey cattle, Sahiwal and Jersey x Sahiwal crossbred cows                                        | 1993 | K S Deshpande |
| 12 | Kiran Bhaskar Rao Chaudhary     | Breeding Efficiency and its relationship with production and reproduction traits in Jersey cattle, Sahiwal and Jersey x Sahiwal crossbreds                          | 1993 | K S Deshpande |
| 13 | Pramod Purushottam Shahakar     | Studies on haemoglobin polymorphism and its association with economic traits in Red Kandhari, Deoni, Holstein Friesian x Deoni and Jersey X Red Kandhari crossbreds | 1994 | A D Deshpande |
| 14 | Khandoji Akaram Patil           | Inheritance of production and production efficiency                                                                                                                 | 1996 | K S Deshpande |

|    |                              |                                                                                                                                |      |               |
|----|------------------------------|--------------------------------------------------------------------------------------------------------------------------------|------|---------------|
|    |                              | traits in Jersey cattle, Sahiwal and Jersey x Sahiwal crossbred cows                                                           |      |               |
| 15 | Sanjay Gajanan Bari          | Genetic studies on production and reproduction traits in Jersey cattle, Sahiwal and Jersey x Sahiwal crossbreds                | 1996 | K S Deshpande |
| 16 | Ankush Govind Mane           | Genetic analysis of closed herd of Khillar cattle                                                                              | 1997 | A D Deshpande |
| 17 | Miss Chingtham Anuradhadevi  | Inheritance of production, lifetime production and reproduction traits in Jersey , Sahiwal and Jersey x Sahiwal crossbred cows | 1997 | K S Deshpande |
| 18 | Patil Sanjiv Vitthalrao      | Genetic studies of production and production efficiency traits in Jersey cattle, Sahiwal and Jersey x Sahiwal crossbred cows   | 1997 | K S Deshpande |
| 19 | Sadashiv Shankarrao Bedkyale | Studies on factors affecting production traits in Gir and Holstein Friesian x Gir crossbred cows                               | 1998 | K S Deshpande |
| 20 | Sanjay Abhimanyu Dhaware     | Genetic studies on production and reproduction traits of Khillar cattle                                                        | 1999 | K S Deshpande |
| 21 | Uadri Sayyad Inayatullah     | Studies of factors affecting reproduction traits in Holstein Friesian x Gir and their crosses                                  | 1999 | K S Deshpande |
| 22 | Kadam Prakash Vitthal        | A study on haemoglobin polymorphism and its association with some economic important                                           | 2000 | A D Deshpande |

|    |                                   |                                                                                                                                               |      |               |
|----|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------|---------------|
|    |                                   | traits in Jamnapari goats                                                                                                                     |      |               |
| 23 | Dange Jalindharnath Tukaram       | Association between haemoglobin polymorphism and some important economic important traits in Osmanabadi goats and their crosses               | 2000 | A D Deshpande |
| 24 | Swapnil Motiram Sakpal            | Biochemical genetic markers and its association with some important economic traits in Sirohi and their crosses                               | 2000 | A D Deshpande |
| 25 | Miss Domrajkar Pranita Bhujangrao | Genetic analysis of Deoni cattle for reproduction and production traits with special reference to haemoglobin polymorphism and potassium type | 2001 | A D Deshpande |
| 26 | Sandeep Jagannath Komatwar        | Genetic analysis of production traits of HF x Sahiwal crossbred                                                                               | 2002 | A D Deshpande |
| 27 | Poddar Vinod Vijayrao             | Genetic polymorphism of DRB3 gene in cattle and livestock species                                                                             | 2002 | A D Deshpande |
| 28 | Sangmeshwar Digambarrao Panchal   | Genetic polymorphism among chicken breeds assessed through MASA and RAPD Markers                                                              | 2002 | A D Deshpande |
| 29 | Prashant Balram Giram             | Breed Characterization of Red Kandhari cattle in Osmanabad/ Latur districts of Marathwada region                                              | 2004 | A D Deshpande |
| 30 | Umesh Ramesh Babrule              | Breed Characterization of Red Kandhari cattle in                                                                                              | 2004 | A D Deshpande |

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|----|-----------------------------|------------------------------------------------------------------------------------------|------|---------------|
|    |                             | Parbhani district of Marathwada region                                                   |      |               |
| 31 | Sachin Sopanrao Kshirsagar  | Breed Characterization of Red Kandhari cattle in Nanded district of Marathwada region    | 2004 | A D Deshpande |
| 32 | Katkade Baliram Shatrughan  | Cytogenetic studies on Indian domestic cattle ( <i>Bos indicus</i> )                     | 2005 | U D Umrikar   |
| 33 | Hemlata Aggarwal            | Cytogenetic studies on Marathwadi Buffalo                                                | 2005 | U D Umrikar   |
| 34 | Shaikh Shabruddin Hasnoddin | Cytogenetic studies on Deccani Sheep                                                     | 2006 | U D Umrikar   |
| 35 | Shrinivas Ashok Katkuri     | Cytogenetic studies on Osmanabadi goat                                                   | 2006 | U D Umrikar   |
| 36 | Dinesh Hari Pawar           | Physical and Morphometric characteristic of Deoni cattle at organized farm.              | 2008 | B S Katkade   |
| 37 | Adgale Ashok Arjun          | Physical And Morphometric Characteristics of Khillar breed of Cattle At Organized farm . | 2009 | B S Katkade   |
| 38 | Miss.Sonule Kanchan Tanaji  | Genetic Analysis on Production and Reproduction Traits of Khillar Cattle.                | 2009 | B S Katkade   |
| 39 | Miss. P. V. Choudhari       | Study of physical and morphometric characteristics of Osmanabadi goats                   | 2010 | M S Vaidya    |
| 40 | Akos Sitaram Rathod         | Gnetic evaluation of lactation and milk production traits of Surti buffalo               | 2013 | M S Vaidya    |
| 41 | Mahendra kumar              | Studies of FecX B and FecX G mutation in a grou of prolific Osmanabadi goats             | 2019 | P V Nandedkar |
| 42 | K Naveeth                   | Study of IGF1 Gene polymorphism in                                                       | 2022 | P V Nandedkar |

|                                    |                                | kaveri and native poultry birds                                                                                   |                           |                            |
|------------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------|
| 43                                 | Pooja Raut                     | Principal Component Analysis Of Biometric Traits To Explain Body Confirmation In Marathwadi And Nagpuri Buffaloes | 2022                      | S Sajid Ali                |
| 44                                 | Saraswati Makne                | Phenotypic And Morphometric Characterization Of Pashmi Dog                                                        | 2023                      | P V Nandedkar              |
| 45                                 | Bandewar Pramod Sanjaykumar    | Genotyping of exotic and crossbred cattle for APAF1 and CWC 15 genes                                              | 2024                      | S Sajid Ali                |
| 46                                 | Sonune Prachi Satish           | Study of DRB3 gene polymorphism in breeding bulls                                                                 | 2024                      | P V Nandedkar              |
| 47                                 | Sayyed Sadekh Sayyed Jafar Ali | FSH $\beta$ and PPP1R11 gene polymorphism in breeding bulls                                                       | 2024                      | M M Chopade                |
| 48                                 | Katte Omkar Gangadhar          | Study of polymorphism in catsper 1 and GnRHR genes in exotic and crossbred bulls                                  | 2025                      | B S Katkade                |
| <b>Completed Doctoral research</b> |                                |                                                                                                                   |                           |                            |
| <b>Sr. No.</b>                     | <b>Name of the Student</b>     | <b>Title of Thesis</b>                                                                                            | <b>Year of Completion</b> | <b>Name of the Advisor</b> |
| 1                                  | Dr Sanjay A. Dhaware           | FSHR, LHR and ER $\alpha$ gene polymorphism and its association with reproductive traits in Marathwadi Buffaloes  | 2022-23                   | Dr M S Vaidya              |

## Research paper published

| <b>Sr. No.</b> | <b>Authors</b> | <b>Year</b> | <b>Title of the Research Paper</b> | <b>Name of the Journal</b> | <b>Volume; Page Nos.</b> | <b>NAAS Rating, if any</b> |
|----------------|----------------|-------------|------------------------------------|----------------------------|--------------------------|----------------------------|
| 1.             | MG Bangar, SB  | 2004        | Study of                           | Indian Journal of          | 12 (1 &                  | Print                      |

|    |                                                                                                                    |      |                                                                               |                                                |                    |                         |
|----|--------------------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------|------------------------------------------------|--------------------|-------------------------|
|    | Nehete, VD Pawar, SN Chilgunde, PV Nandedkar, RS Deshmukh, CS Asalkar                                              |      | breeding value of lactation yield and service period in Gir and its crosses   | Experimental Biology                           | 2) : 69            | ISSN : 0971-1643.       |
| 2. | Agrawal H. D., <b>Katkade B. S.</b> , Shaikh S. H., Katkuri S. A., Kanadkhedkar H. L. and Umrikar U. D             | 2005 | Study of G- and C-banding Patterns of Marathwadi Buffalo of Marathwada Region | J. Bombay Vet. Coll                            | 13 (1 & 2) : 73-74 |                         |
| 3. | Agrawal H. D., <b>Katkade B. S.</b> , Shaikh S. H., Katkuri S. A., Kanadkhedkar H. L. and Umrikar U. D             | 2005 | Comparative study of media for lymphocyte culture in Marathwadi buffalo       | J. Bombay Vet. Coll                            | 13 (1 & 2) : 66-67 |                         |
| 4. | P. V. Nandedkar, V. K. Saxena, M. Saxena, F. Malik, K. Singh, P. Jain, K. A. Ahmed, N. R. Sundaresan, S. B. Nehete | 2007 | TGF- $\beta$ 2 gene analysis in coloured synthetic male line broiler parents. | Indian Journal of Animal Genetics and Breeding | 15 (1 & 2) : 88-91 | Print ISSN : 0971-1643. |
| 5. | <b>Katkade B. S.</b> , Agarwal H. D., Pawar D. H., Katkuri S. A., Kanadkhedkar H. L. and Umrikar U. D.             | 2008 | Study of G- and C-banding patterns of Red Kandhari Cattle Chromosomes         | J Bombay Vet. Coli                             | 16 (1) : 34-35     |                         |
| 6. | <b>Katkade B. S.</b> , Agarwal H. D., Katkuri S. A., Pawar D. H., Kanadkhedkar H. L. and Umrikar U. D.             | 2008 | Comparative Assessment of Media for Chromosome Studies in Red Kandhari Cattle | J Bombay Vet. Coli                             | 16 (I): 30-31      |                         |
| 7. | AR Sirothia, TR Gawande, PV Nandedkar, NH Fuke, PK Singh, Gurmej Singh                                             | 2008 | Morphology and productivity of Nagpuri buffalo.                               | Indian Res. J. Ext. Edu.                       | 8 (1): 10-12       | 2.57                    |

|     |                                                                                                                                                                                                                   |           |                                                                                                                   |                                             |                |                         |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------|-------------------------|
|     | Gurmej Singh, AK Nair                                                                                                                                                                                             |           |                                                                                                                   |                                             |                |                         |
| 8.  | Deepa Bhartiya, William Ritchie, Indira Hinduja, Pandit Nandedkar, Kusum Zaveri, Leena Mukadam, Parul Chohan, Archana Patwardhan, Punam Nagvenkar, Neeraj Kumar, Pollyanna Tat, Nadine M. Richings, Paul J. Verma | 2008      | Human somatic cell nuclear transfer and parthenogenesis : Preliminary Indian experience                           | Indian Res. J. Ext. Edu.,                   | 3 (4): 255-264 |                         |
| 9.  | Nandedkar Pandit Chohan Parul, Patwardhan Archana, Gaikwad Santosh and Bhartiya Deepa                                                                                                                             | 2009      | Parthenogenesis and Somatic cell nuclear transfer in sheep oocytes using Polscope                                 | International Journal of Livestock Research | 47: 550-558    | 6.60                    |
| 10. | Kachare R. W, Kanadkhedkar H.L., Pawar D.H., Adgale A.A., Shaikh S.H., <b>Katkade B.S.</b> and Umrikar U.D                                                                                                        | 2009      | Chromosome Architecture, G banding Studies and Media Comparison for Lymphocyte Culture of Karwani Dog             | J. Bombay Vet. Coll                         | 17 (1) : 5-7   |                         |
| 11. | Nandedkar P V, Saxena V K, Saxena M, Ahmed K.A., Kumar S., Singh R., Jain P and Nehete S.B                                                                                                                        | 2009      | Growth Related Candidate Genes in Relation to Musculoskeletal Deformities in Coloured Synthetic Male Line Parents | International Journal of Livestock Research | 17 (1) : 52-54 | Print ISSN : 0971-1643. |
| 12. | Bagale S.S., Shaikh G.M., Abdul Aziz and Nandedkar P.V.                                                                                                                                                           | 2012 & 13 | Study of MHC allele polymorphism in mastitic and mastitis free cattle                                             | International Journal of Livestock Research | 31-32          | ISSN 0971-8499          |

|     |                                                                                                              |      |                                                                                                                                                  |                                             |                  |      |
|-----|--------------------------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|------------------|------|
| 13. | Nandedkar P.V., V.K. Saxena, M. Saxena, K.A. Ahmed, S. Kumar, R. Singh, P. Jain, M.R. Jawale and S.B. Nehete | 2014 | PCR-RFLP- Gene Study in Musculoskeletal Deformed Birds                                                                                           | International Journal of Livestock Research | 14 (4): 78-81    | 4.81 |
| 14. | A.A. Adgale, <b>B.S. Katkade*</b> , S.B. Khade, M.M. Chopade and S.J. Komatwar                               | 2019 | Physical and Morphometric Characteristics of Khillar Breed of Cattle                                                                             | Int.J.Curr.Microbiol.App.Sci                | 6(9): 513-518    |      |
| 15. | P.V. Nandedkar, Bagale S.S., Shaikh G.M. and Abdul Aziz                                                      | 2017 | MHC Allele Polymorphism in Cattle Mastitis                                                                                                       | Journal of Animal Research                  | 36-41.           | 4.81 |
| 16. | S. L. Pashamwar, M. G. Nikam, M. V. Dhumal, M. F. Siddiqui, P. V. Nandedkar and S. S. Gaikwad                | 2018 | Effect of Dietary Supplementation of Guar Meal with $\beta$ -Mannanase Enzyme on Growth Performance and Economics of Broiler Birds               | Ruminant Science                            | 8 (5):154-166.   | 5.36 |
| 17. | M.V. Dhumal, M. G. Nikam, P. V. Nandedkar, S. B. Majee and Ravikanth Kotagiri                                | 2018 | Efficacy of Herbal Liver Tonic (Superliv) in Improving Growth Performance, Nutrient Utilization, Carcass Traits and Economics of Broiler Chicken | Indian Journal of Animal Sciences           | 8 (06): 266-278. | 5.36 |
| 18. | Asrar Ahmed; Manik Dhumal; M. G. Nikam; Pandit Nandedkar; V. S. Ingle.                                       | 2019 | Effect of Supplementation of Organic Acids and Their Combination as                                                                              | Indian Journal of Animal Sciences           | 9(2): 154-165    | 5.36 |

|     |                                                                                                      |      |                                                                                                                            |                                            |                      |                |
|-----|------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|----------------------|----------------|
|     |                                                                                                      |      | an Alternative to Antibiotic Growth Promoter on Performance, Gut Health, Immune Status and Economics of Broiler Production |                                            |                      |                |
| 19. | M M Chopade, B S Katkade, S J Komatwar, V D Pawar and S B Khade                                      | 2020 | Evaluation of Frieswal sires for lifetime milk yield                                                                       | International Journal of Applied Research. | Vol 6 (10):1105-1109 | Reffere d (IF) |
| 20. | Mahendra Kumar, P. V. Nandedkar, M. S. Vaidya, S. A. Dhaware, S. S. Gaikwad and P. R. Suryawanshi    | 2021 | Study of FecXB and FecXG Mutations in a Group of Prolific Osmanabadi Goats                                                 | Small Ruminant Research                    | 11 (3):124-129       | 5.36           |
| 21. | Bajrang Kagane, Rupesh Waghmare, Vivek Deshmukh, Sanjay Londhe, Kakasaheb Khose and Pandit Nandedkar | 2021 | Antimicrobial Resistance of Pathogenic Escherichia coli isolated from Broiler Production Systems                           | Indian Journal of Experimental Biology     | 11(5): 915-923       | 5.43           |
| 22. | S.A.Dhaware, M.S.Vaidya, P.V.Nandedkar, P.V.Yevtikar, V.B.Dongre, L.S.Kokate and R.P.Gaikwad         | 2022 | Detailed analysis of the Production and Reproductive traits of Marathwadi buffaloes                                        | The Journal of Bombay Veterinary College   | 45, 11 (1) : 45-48   | 4.45           |
| 23. | Pooja B Raut, S. Sajid Ali*, PV Nandedkar, MM Chopade, MBA Siddiqui, SM Wankhede & K Naveeth         | 2022 | Principal component analysis of body biometric traits in Marathwadi buffaloes                                              | Indian Journal of Animal Sciences          | 93 (2): 226–231      |                |
| 24. | Pooja B Raut , S Sajid Ali, P V                                                                      | 2023 | Principal component                                                                                                        | Indian Journal of Animal Genetics          | 93 (2): 226–231      | 6.20           |

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|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------|------|
|    | Nandedkar , M M<br>Chopade , M B A<br>Siddiqui , S M<br>Wankhede And K<br>Naveeth                                                                                        |      | analysis of body<br>biometric traits<br>in Marathwadi<br>buffaloes                                                            | and Breeding                              |                     |      |
| 25 | SK Makne, PV<br>Nandedkar, RR<br>Thakur, MM<br>Chopade, SS Ali<br>and MS Dige                                                                                            | 2024 | Phenotypic and<br>morphometric<br>characterization<br>of Janwal<br>Pashmi dog                                                 | Indian Res. J. Ext.<br>Edu.               | 94 (5):<br>447-451  | 6.20 |
| 26 | SP Naik, PV<br>Nandedkar, A<br>Gurao, PK Rout,<br>MK Singh, S Sajid<br>Ali, PR<br>Suryawanshi, PB<br>Ghorpade, M<br>Chitkara, RS<br>Kataria, GR<br>Gowane, MS Dige       | 2024 | Genetic<br>diversity and<br>evolutionary<br>significance of<br>Cahi-DRB1<br>gene in Indian<br>goat from semi-<br>arid regions | Indian Res. J. Ext.<br>Edu.,              | 240:<br>107365      | 7.80 |
| 27 | SK Makne, PV<br>Nandedkar, RR<br>Thakur, MM<br>Chopade, S. Sajid<br>Ali & MS Dige                                                                                        | 2024 | Phenotypic and<br>morphometric<br>characterization<br>of Janwal<br>Pashmi dog                                                 | Indian Journal of<br>Animal Sciences      | 94 (5):<br>447–451  |      |
| 28 | SP Naik, PV<br>Nandedkar, A<br>Gurao, PK Rout,<br>MK Singh, S. Sajid<br>Ali, PR<br>Suryawanshi, PB<br>Ghorpade, M.<br>Chitkara, RS<br>Kataria, GR<br>Gowane & MS<br>Dige | 2024 | Genetic<br>diversity and<br>evolutionary<br>significance of<br>Cahi-DRB1<br>gene in Indian<br>goat from semi-<br>arid regions | Small Ruminant<br>Research                | 240:<br>107365      |      |
| 29 | S. Sajid Ali*, SV<br>Kuralkar, HL<br>Kanadkhedkar, PS<br>Bankar, RS Kataria<br>& Vikas Vohra                                                                             | 2024 | Discriminant<br>analysis reveals<br>differences in<br>breed structure<br>in river<br>buffaloes of<br>Maharashtra<br>(India)   | Tropical Animal<br>Health &<br>Production | 56, 38              |      |
| 30 | Pooja B Raut, S<br>Sajid Ali, P V                                                                                                                                        | 2022 | Principal<br>Component                                                                                                        | Indian Journal of<br>Animal Sciences      | Vol 93<br>(2): 226- | 6.20 |

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|    | Nandedkar, M M<br>Chopade, MBA<br>siddiqui, S M<br>Wankhede and K<br>Naveeth                            |      | analysis of body<br>biometric traits<br>in Marathwadi<br>Buffaloes                                                                      |                                                                     | 231                                 |      |
| 31 | Chopade M M,<br>Shrinivas<br>Jahageerdar,<br>Deshmukh R S,<br>Katkade B S and<br>Sawane M P             | 2023 | Study of effect<br>of various<br>genetic and non<br>genetic factors<br>on milk yield in<br>Frieswal cattle                              | Indian Journal of<br>Animal Sciences                                | 93 (1):<br>67-71                    | 6.20 |
| 32 | M M Chopade,<br>Shrinivas<br>Jahageerdar, R S<br>Deshmukh, B S<br>Katkade and M P<br>Sawane             | 2023 | Effect of Non<br>genetic Factors<br>and Sire on<br>Lactation<br>Length in<br>Frieswal cattle                                            | Indian Journal of<br>Animal Research.<br>203.                       | doi<br>10.18805<br>/IJAR.B-<br>5078 | 6.40 |
| 33 | Sonwane S. M.,<br>Chopade M M,<br>Sawane M P,<br>Yadav K N, Pawar<br>V D, Ingole S D<br>and Katkade B S | 2023 | Study of<br>polymorphism of<br>toll like recetor-4<br>gene in crossbred<br>cattle and uts<br>association with<br>somatic cell<br>count. | Indian Journal of<br>Animal Sciences.                               | . 93 (12):<br>1223-<br>1225         | 6.20 |
| 34 | S K Makne, P V<br>Nandedkar, R R<br>Thakur, M M<br>Chopade, S Sajid<br>Ali and M S Dige                 | 2024 | Phenotypic and<br>morphometric<br>characterization<br>of Janwal Pashmi<br>dog                                                           | Indian Journal of<br>Animal Sciences.                               | 94 (5):<br>55-59                    | 6.20 |
| 35 | S J Komatwar, M P<br>Sawane, M M<br>Chopade, B S<br>Katkade, S B<br>Khade and K N<br>Pawalkar           | 2024 | Screening of<br>Gaolao cattle for<br>chromosomal<br>analysis                                                                            | International<br>Journal of<br>Advanced<br>Biochemistry<br>Research | . 8 (7):<br>92-95                   | 5.29 |
| 36 | Shingne D. F.,<br>Sawane M. P.,<br>Chopade M. M.,<br>Sorte S. D and<br>Pawar V. D                       | 2024 | Association of<br>Osteopontene<br>gene with milk<br>production traits<br>in native and<br>HF crossbred<br>cows                          | Indian Journal of<br>Animal Sciences                                | 94 (11):<br>948–952                 | 6.20 |
| 37 | <b>Baliram S<br/>Katkade</b> , Mahadeo                                                                  | 2024 | Factors<br>Affecting                                                                                                                    | Ruminant Science                                                    | Vol 13<br>No 1, p                   | 5.48 |

|  |                                                                              |  |                                                   |  |         |  |
|--|------------------------------------------------------------------------------|--|---------------------------------------------------|--|---------|--|
|  | P Sawane <sup>2,*</sup> ,<br>Mahesh M Chopade<br>1 and Sandeep J<br>Komatwar |  | Lactation<br>Length In Gir<br>Crossbred<br>Cattle |  | 113-116 |  |
|--|------------------------------------------------------------------------------|--|---------------------------------------------------|--|---------|--|

### **Research Priorities / Thematic areas: Department Wise**

1. Study of gene responsible for reproduction traits, Production traits, growth traits, disease resistance and heat tolerance in large ruminants.
2. Study of gene responsible for reproduction trait including fecundity gene, Production traits, growth traits and disease resistance in small ruminants.
3. Genetic and phenotypic characterization of lesser known germplasm in marathwada Region.