

Report to be presented in 16th Joint AGRESCO meeting of NAU
Animal Health
Meeting held on 16th May, 2020

Summary:

Farmers recommendation		Scientific recommendation		New Technical programme		Ongoing programme
Presented	Accepted	Presented	Accepted	Presented	Accepted	
0	0	7	7	7	7	10

Sr. No.	Recommendations for Scientific Community
16.2.1	<p>Title: Formulation and <i>in-vitro</i> evaluation of quercetin loaded micro emulsion for pharmacological properties.</p> <p><i>Recommendations for Scientific Community:</i></p> <p>Quercetin microemulsion (1 mg/ml) formulation includes 1M NaOH, Tween 80 and Water in the ratio of 0.2:0.2:19.6 showed good antioxidant property with IC50 values 3.75 µg/ml and 1791.8µg/ml in ABTS and DPPH assay, respectively.</p> <p style="text-align: right;"><i>(Action: PI through HoD, Vet. Pharmacology & Toxicology)</i></p>
16.2.2	<p>Title: <i>In vitro</i> evaluation of combination effect of Rutin with Enrofloxacin, Gentamicin sulphate and Ceftriaxone.</p> <p><i>Recommendations for Scientific Community:</i></p> <p>Combination of Rutin and Enrofloxacin has synergistic action with the concentrations 78.13 and 0.12 µg/ml against <i>S. typhimurium</i>, <i>P. mirabilis</i> and <i>B. subtilis</i> whereas with the concentrations 78.13 and 0.24 µg/ml against <i>P. aeruginosa</i>.</p> <p style="text-align: right;"><i>(Action: PI through HoD, Vet. Pharmacology & Toxicology)</i></p>
16.2.3	<p>Title: <i>In vitro</i> evaluation of combination effect of Rutin with Enrofloxacin, Gentamicin sulphate and Ceftriaxone.</p> <p><i>Recommendations for Scientific Community:</i></p> <p>Combination of Rutin and Gentamicin sulfate has synergistic action with the concentrations 78.13 and 3.91 µg/ml against <i>E. coli</i> and <i>P. aeruginosa</i>, with the concentrations 78.13 and 0.98 µg/ml against <i>S. typhimurium</i> and <i>S. pyogenes</i>, with the concentrations 78.13 and 1.95 µg/ml against <i>P. mirabilis</i> and with the concentrations 78.13 and 7.81 µg/ml against <i>S. aureus</i>.</p> <p style="text-align: right;"><i>(Action: PI through HoD, Vet. Pharmacology & Toxicology)</i></p>
16.2.4	<p>Title: <i>In vitro</i> evaluation of combination effect of Rutin with Enrofloxacin, Gentamicin sulphate and Ceftriaxone.</p> <p><i>Recommendations for Scientific Community:</i></p> <p>Combination of Rutin and Ceftriaxone has synergistic action with the concentrations 78.31 and 0.98µg/ml against <i>S. typhimurium</i> and <i>P. aeruginosa</i> whereas with the concentrations 78.31 and 1.95 µg/ml against <i>S. pyogenes</i>.</p> <p style="text-align: right;"><i>(Action: PI through HoD, Vet. Pharmacology & Toxicology)</i></p>

16.2.5	<p>Title: Evaluation of <i>in vivo</i> anti-inflammatory and antibacterial activities of Ellagic acid following intramuscular administration in albino rats.</p> <p><i>Recommendations for Scientific Community:</i></p> <p>Ellagic acid has good anti-inflammatory activity at 150 mg/kg body weight in carrageenan induced rat paw edema model.</p> <p><i>(Action: PI through HoD, Vet. Pharmacology & Toxicology)</i></p>
16.2.6	<p>Title: Histopathological study on renal lesions in animals.</p> <p><i>Recommendation for scientific community:</i></p> <p>It is recommended to conduct periodic renal function tests in animals as membrano-proliferative glomerulonephritis and ischemic acute tubular necrosis are commonly observed renal lesions on histopathology.</p> <p><i>(Action: PI through HoD, Vet. Pathology)</i></p>
16.2.7	<p>Title: Evaluation of various therapeutic techniques for posterior paresis in dogs.</p> <p><i>Recommendation for Scientific Community:</i></p> <p>Following therapeutic regimen is recommended for treatment of posterior paresis in dogs not having spinal fracture/dislocation:</p> <ol style="list-style-type: none"> 1. Arnica – 30 @ 4 pills thrice daily for 30 days, PO 2. Lathyrus – 30 @ 4 pills thrice daily for 30 days, PO 3. Tab. Prednisolone @ 0.5 mg/kg for first 15 days followed by 0.25 mg/kg for next 15 days, PO 4. Nervine tonic (Twice daily for 30 days in standard dose), PO 5. Tab. Amoxicillin and potassium clavulanate @10 mg/kg twice daily for 7 days, PO <p><i>(Action: PI through HOD, Veterinary Surgery and Radiology)</i></p>

NEW TECHNICAL PROGRAMMES

Sr.No.	Title of the experiment
	<i>Department of Veterinary Pharmacology & Toxicology</i>
16.2.8	Evaluation of <i>in vitro</i> antibacterial effect of Linalool combined with Enrofloxacin, Gentamicin sulphate and Ceftriaxone.
16.2.9	<i>In vitro</i> antibacterial effect of Catechin combined with Enrofloxacin, Gentamicin sulphate and Ceftriaxone.
16.2.10	<i>In vitro</i> evaluation of lemon grass (<i>Cymbopogon flexuosus</i>) extract for pharmacological properties.
	<i>Department of Veterinary Gynaecology & Obstetrics</i>
16.2.11	Effect of Sheturi/Black mulberry (<i>Morus nigra</i>) plant leaves extract supplementation in Tris Egg Yolk Citrate Extender on cryopreserved Surti buck semen quality.
16.2.12	Effect of Mango (<i>Mangifera indica</i>) plant leaves extract supplementation in Tris Egg Yolk Citrate Extender on Surti buck semen quality preserved at refrigerated temperature.
	<i>Polytechnic in Animal Husbandry, NAU, Navsari</i>
16.2.13	Detection of haemoprotozoan parasites in salivary glands of common bovine ticks.
	<i>Polytechnic in Agriculture, NAU, Vyara</i>
16.2.14	<i>In vitro</i> anthelmintic activity of herbal extracts against <i>Haemonchus contortus</i> of goats.