

The Lesion

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Editors

Dr R. Somvanshi
Dr K.P. Singh
Dr M. Saminathan

From President's Desk ...

We met at Durg, Chhattisgarh exactly one year before on 8th Nov., 2016. A lot of events have occurred in IAVP. New EC has taken up charge and trying hard to take up IAVP to further heights. Amended IAVP constitution is effective during the year resulting in additional activities and more IAVP Awards. We have witnessed successful Durg Conference in November, 2016. Organizing Secretary Prof. R.C. Ghosh deserves our heartiest congratulations. New issues of IAVP are in our hand with better impact factor. Chief Editor Dr R.V.S. Pawaiya and Dr K.P. Singh, Secretary General and their team deserve our high appreciation and congratulations. IAVP website is redesigned, updated and given new illustrative and attractive look. It is very sad that our more than half a dozen senior colleagues and IAVP stalwarts (Prof. S.J. Sheshadari, B.C. Nayak, P.K.R. Iyer and others) have passed away. We are paying homage to them suitably by obituaries in IAVP Website, IAVP and remembering them in special memorial session. You are desired to find some time for the activities of IAVP and join ICVP through board certification examination.

It is matter of immense pleasure that Asian Veterinary Pathology Congress, 2017 and XXXIV Annual Conference of Indian Association of Veterinary Pathologists is being organized on 9-11th November, 2017 at Department of Veterinary Pathology, Veterinary College, Hebbal, Bengaluru. We are eagerly looking forward for fruitful deliberations and outcomes in forthcoming Congress. I welcome Asian Delegates and wish the organizers for a grand successful Asian
R. Somvanshi

LIFETIME ACHIEVEMENT AWARD TO FORMER PRESIDENT IAVP: DR J.L. VEGAD

Eminent Veterinary Pathologist and former President of IAVP, **Prof. J.L. Vegad** was honoured with Composite Livestock Feed Manufacturer Association or "CLFMA-Lifetime Achievement Award" for his immense contributions to the poultry industry through by authoring books on poultry diseases, monographs, lectures throughout the country on poultry diseases, useful field observations on LaSota vaccination and drift variants of low pathogenic avian influenza virus published in the Poultry Science Journal. These observations helped poultry farmers in reducing economic losses. The prestigious award was given to Dr J.L. Vegad, jointly by the Union Agriculture and Farmers Welfare Minister, Government of India, Mr Radha Mohan Singh and Chief Minister of Maharashtra, Shri Devendra Fadnavis on occasion of 50 Years of CLFMA of India. The award function was held at JW Marriot Hotel in Mumbai on 15th September. About 500 delegates and guests were present including some delegates from abroad. The award ceremony was followed by technical seminar on 16th September, 2017.



Earlier, Dr Vegad received ICAR-Rafi Ahmed Kidwai Memorial Award for basic research and now he is awarded CLFMA Award for his field contributions to the poultry farmers. On this occasion, Dr Vegad said- "I am deeply satisfied that my veterinary pathology knowledge is useful to our people". A teeming number of his colleagues, admirers and students congratulated Prof. Vegad for this great achievement on social media particularly on IAVP Whatsapp group.

TAMIL NDU STATE TANS AWARD, 2014 TO DR C. BALACHANDRAN

Dr C. Balachandran, Former Registrar, TANUVAS and Dean (Retired), Madras Veterinary College and Former Vice President, IAVP received Tamil Nadu State Council for Science and Technology Award called TANS A for the year 2014 in Veterinary Science for the contribution to Veterinary Pathology from the Hon'ble Minister for Higher Education of Tamil Nadu Shri K.P. Anabalan in a ceremony held on 25.09.2017. The objectives of this scheme is to encourage and honor scientists and researchers who have contributed significantly in their fields of specialization through their skill pioneering and outstanding applied research work and other such activities leading to S&T development in the Tamil Nadu State. Selected scientists are given Rs. 50,000/- in cash and a citation. IAVP congratulates, its' former Vice President Dr C. Balachandran for this great achievement and wishes him for such more recognition and honors in future too.



Asian Veterinary Pathology Congress, 2017 at Department of Veterinary Pathology, Veterinary College, Hebbal, Bengaluru on 09 - 11, November, 2017

The Department of Veterinary Pathology, Veterinary College in association with IAVP, ASVP and ICVP is organizing Asian Veterinary Pathology Congress w.e.f. from 9-11, November 2017 at Hebbal, Bengaluru. On this occasion, VIII Meeting of Asian Society of Veterinary Pathologists, XXXIV Annual Conference of Indian Association of Veterinary Pathologists, VIII Annual Meeting of Indian College of Veterinary Pathologists and International Seminar on "Emerging horizons in diagnosis of animal and poultry diseases: towards sustainable production in Asian countries" is being organized. Congress will be attended by national and international delegates. For details please visit IAVP (www.iavp.org) and Conference Website (<https://www.iavp-asvp2017.com/iavp2017>).

Venue of Asian Veterinary Pathology Congress: Department of Veterinary Pathology, Veterinary College, Hebbal, Bengaluru

The Department of Veterinary Pathology came into existence in 1958 when the Veterinary College was established. Since inception, Department is offering UG and PG courses under Trimester System and presently in the Semester System, as per VCI guidelines.

Academic Activities: The courses are offered at BVSc & AH programme as per the Veterinary Council of India. So far, 132 MVSc and 15 PhD degrees have been awarded from the Department.

Research Activities: The Department has handled 2 Indian Council of Agricultural Research Projects viz. Project on bovine paraplegia and Marek's disease. A collaborative research project with Department of Microbiology on Calf Mortality was also handled. Identifying the problems of farmers of Karnataka State, Department of Pathology had taken up three State funded research projects, namely: Preparation and purification of hyper immune sera against rabies, Pathology and pathogenesis of New Castle disease in poultry and Etiopathology, diagnosis and control of HPS in poultry. In addition, the Department of Pathology has handled 33 successfully completed University sponsored research projects. Department has published more than 250 research papers in National and International journals.



Extension Activities: Information is disseminated to farmers, pet owners and commercial clients on disease diagnostics of common etiological agents, laboratory investigation services and advice on disease prevention and management. Training Programs are arranged for Veterinarians of private sector, field Veterinary Officers, Veterinary and Livestock Inspectors, farmers and Masters / PhD students from other Institutes. Media dissemination of information through Radio and Television network is regularly being done. Two National Seminars and 5 One Day Seminars have been organized for the benefit of scientists, students and farmers.

Recognitions and Awards: Award of Funding under FIST Programme of Department of Science and Technology, Govt of India., for Infrastructure Development was granted. The Department is well equipped with modernized histopathological processors, research microscopes with display facilities.

Current Areas of Research: Toxicology-Pathology, histopathology and histochemistry, diagnostic pathology, oncology and avian pathology. **Dr M.L. Satyanarayana** is Professor and Head of Department (mlspathology@yahoo.com). Other faculties are **Prof. H.D. Narayanaswamy**, (drhdnswamy@gmail.com) and **Prof. Suguna Rao** (sugunabg@yahoo.com) besides some contractual faculty.

Meet Your Organizing Secretary : Dr H.D. Narayanaswamy

Dr H.D. Narayanaswamy, Dean, Veterinary College, Gagad, Karnataka and Professor, Department of Veterinary Pathology, Veterinary College, Hebbal, Bengaluru of Karnataka Veterinary, Animal and Fishery Sciences University (KVAFSU), Bidar, Karnataka was born on 01st June, 1961. He obtained BVSc and MVSc (Veterinary Pathology) degrees from University of Agricultural Sciences, Bangalore in 1987 and 1990, respectively. Dr H.D. Narayanaswamy obtained his PhD from Madras Veterinary College (TANUVAS), Chennai in 1999 with Gold medal. He joined the academics as an instructor in 1991 at Veterinary College, UAS, Hebbal, Bengaluru, became Assistant Professor in 1996 and then promoted to Professor in 2006 at KVAFSU. During this period he also functioned as Head of the Department at Hassan Veterinary College (KVAFSU) from 2010-2011 and at Veterinary College, Hebbal from 2013 to 2014. He also worked in various positions-like University Associate Co-ordinator of Examination, Veterinary College, Hebbal, Bengaluru, Director of SC/ST Cell, Associate Director of Research and Member in Board of Studies. He had a vast experience of 25 years in UG teaching and 20 years of PG teaching. Till date he has guided about 19 MVSc students and 10 PhD students as Chairman and as a member more than 100 MVSc and PhD students. He published about 40 research and review articles in various reputed national and international journals. He had delivered invited lectures and lead papers as a resource person in various workshops and conferences and received many awards viz. Best Poster Presentation Award, Young Scientist Award, Prof. Patri Rama Rao Best Ph.D Thesis Award and award for outstanding contribution to development of the Poultry Pathology. He also successfully completed 6 research projects worth of Rs 6.5 crores, funded by various Institutions of state and central government that has helped the Department as well as established exclusively ICAR-NICHE area of excellence laboratory in Veterinary College, Hebbal, Bengaluru. His projects and research findings have benefitted, either directly or indirectly to the rural and farming communities, especially the poultry industry in Karnataka.



Dr S.D. Singh Joins as ICAR-Emeritus Scientist at Division of Pathology, IVRI, Izatnagar

Dr S.D. Singh, Retired Principal Scientist, Avian Disease Section, Division of Pathology, ICAR-IVRI, Izatnagar, UP was selected as ICAR-Emeritus Scientist. He joined new assignment on 1st February, 2017. He is working on project entitled "Development of Pen-side diagnostic test for the diagnosis of Marek's disease in poultry". Dr Singh is renowned avian pathologist who retired from Council service in 2016. ICAR has revised Emeritus Scientist Scheme from 2 to 3 years of period with more contingency and honorarium to Scientist. IAVP congratulates Dr Singh for this great achievement.



GADVASU Awarded ICAR-Centre of Advanced Faculty Training in Veterinary Pathology Achievements

ICAR has conferred a **Centre of Advanced Faculty Training Facility (CAFT) in Veterinary Pathology** to the Department of Veterinary Pathology, College of Veterinary Science, GADVASU, Ludhiana in recognition of hard work constantly being put up by the faculty member of the Department over the period of years since its inception. The Department of Veterinary Pathology, GADVASU would now be a front runner in imparting two professional training programme on an annual basis to faculty members getting trained in latest diagnostic aspects under the ambit of CAFT. Dr Charan Kamal Singh, Head, Veterinary Pathology and the Course Director said that the Department shall play a paramount role in generation of Human Resource/ Capacity building measures in the field of Veterinary Pathology in India. The Department is going to organize 21 days training programme under CAFT from, Nov., 17th - Dec. 07th, 2017 on the topic "Recent approaches in clinico-pathological diagnoses of animal diseases". The Course will be coordinated by two senior Professors of the Department.



Dr Rajeev Ranjan Attended Third Regional Roadmap Meeting on PCP-FMD for SAARC Member States at Colombo, Sri Lanka

Dr Rajeev Ranjan, Scientist (Veterinary Pathology) and Bio-Safety Officer, ICAR-International Centre for Foot and Mouth Disease (a constituent laboratory of ICAR-Directorate of Foot and Mouth Disease, IVRI Campus, Mukteswar, Uttarakhand), Arugul, Bhubaneswar attended the FAO/OIE GF_TAD and RSU-SAARC jointly organised Meeting in partnership with the SAARC Secretariat "Third Regional Roadmap Meeting on PCP-FMD for SAARC Member States" to review the progress made and define future "Strategies for the Implementation of the Global Foot-and-Mouth Disease (FMD) Control in South Asia", held in Colombo, Sri Lanka from 14-16 December, 2016. Participants from SAARC countries belonged to reference/national laboratories engaged in foot and mouth disease participated in this meeting. To reduce the FMD burden, the Food and Agriculture Organization of the United Nations and the World Organization for Animal Health (OIE) developed a 15-year global control strategy in 2012 under the Global Framework for the Progressive Control of TADs (GF-TADs). Since the global FMD control strategy came to light, several initiatives were made to establish an enabling environment to make FMD control a feasible option particularly for the most affected countries by this disease. For an effective implementation of the global FMD strategy and to resolve some of the anticipated challenges, regional roadmap platforms have been successfully used to assess the progress of FMD control in accordance to the PCP-FMD guidelines. The FMD roadmap meetings were aimed at sharing information on FMD virus circulation in the region, assessing the progress of each country along with the Regional Roadmap and assisting them in preparing and implemented their national control programmes.



Chancellor's Gold Medal to Dr Rahul Yadav



Chancellor Gold Medal to Dr Rahul Yadav, MVSc Student Veterinary Pathology was Awarded by His Excellency Shri Ram Naik, Governor of Uttar Pradesh for his outstanding research in Veterinary Pathology on 13th Oct. 2017. His mentor is Dr Debasish Niyogi, Associate Professor & Head, Department of Veterinary Pathology, College of Veterinary Sciences & Animal Husbandry, Narendra Dev University of Agriculture & Technology, Kumarganj-224229, Faizabad, U.P.

Pheochromocytoma in Kankrej Bullock – A Case Report

Case Report

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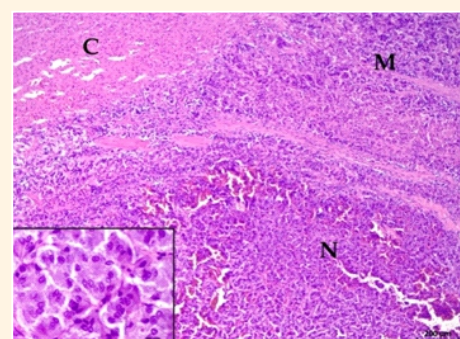
Among neoplasm of adrenal medulla, pheochromocytomas are the most common neoplasm most often found in dogs, cattle, and horses and infrequently in other domestic animals². This case report describes the gross and histopathological findings of incidental pheochromocytoma in a Kankrej bullock. About 20 years old Kankrej bullock had lethargy, low appetitive, tachycardia, brisket swelling and prominent jugular pulsation before death. Traumatic reticulo pericarditis was suspected and symptomatic treatment was given. However, animal died within 2 days of treatment and submitted to Department of Veterinary Pathology, College of Veterinary Science and Animal Husbandry, SDAU, Gujarat for necropsy. Post mortem examination revealed distended pericardium with about 1 to 1.2 litre of pus. Sharp metal wire was recovered from pericardium. Lungs showed edema and mild multifocal suppurative pneumonia. Left adrenal gland had about 2 cm, circumscribed dark nodule in medulla that compressed the overlying cortex (Fig. 1). Other organs showed mild congestion.

The tissues were fixed in 10% buffered formalin, washed thoroughly under running tap water overnight, dehydrated in different grades of alcohol, cleared in xylene, embedded in paraffin wax and blocks were prepared. The five microns sections were taken and stained by routine Haematoxylin and Eosin (H&E) staining method. Microscopically, pheochromocytoma was encapsulated, highly cellular neoplasm composed of round to polygonal cells arranged in nest and packets. Multifocal neoplasm compressed the cortex and effaced the medulla. Neoplastic cell had indistinct cell borders, moderate amount of eosinophilic granular cytoplasm and round to oval, minimally pleomorphic nuclei with finally stippled chromatin and inconspicuous nucleoli (Fig. 2). Mitotic figures average were less than 1 per 10 high power fields. Diffusely sinusoids were markedly congested.

In domestic animals, cause of pheochromocytoma is not well established. In many instance it's a sporadic tumour but in cattle familial predisposition may occur. Pheochromocytoma tends to occur more frequently in older animals. They are often unilateral and locally invasive but metastasize in about 25% of cases. Stimulation of adrenal medulla following chronic stress may also leads to development of pheochromocytoma, as suggested in rats. In present case stress was induced by traumatic reticulo pericarditis might be one of contributing factor for development of pheochromocytoma. The other molecular mechanism which thought to be responsible for development of pheochromocytoma in humans includes activation of hypoxic pathway and the mitogen-activated protein (MAP) kinase/mammalian target of rapamycin (mTOR) pathways and also hypermethylation or mutation of the succinate dehydrogenase (*SDHx*) genes¹.

Fig. 1: Left adrenal gland showing about 2 cm, circumscribed dark nodule in medulla compressing the overlying cortex (arrow).

Fig. 2: Pheochromocytoma: Highly cellular neoplasm (N) compressed the cortex (C) and effaced the medulla (M). Neoplastic cells are arranged in nests and showing indistinct cell borders, moderate amount of eosinophilic granular cytoplasm and round to oval, minimally pleomorphic nuclei with finally stippled chromatin and inconspicuous nucleoli. H&E, 50 X; Inset: H&E, 400 X



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1. Rosol, T.J. and Gröne, A. (2016). Endocrine glands. In: Maxie, M.G., ed. *Jubb, Kennedy & Palmer's Pathology of Domestic Animals, Volume 3*. 6th ed. Elsevier Saunders, Philadelphia, PA: Pp-279–357.
2. Rosol, T.J. and Meuten, D.J. (2016). Tumors of the endocrine glands. In: Meuten D.J., ed. *Tumors in Domestic Animals*. 5th ed. John Wiley & Sons, Inc.: Pp-718–833.

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Foot-and-Mouth Disease Virus-Associated Abortion and Vertical Transmission Acute Infection in Cattle under Natural Conditions

Ranjan, R., Biswal, J.K., Subramaniam, S., Singh, K.P., Stenfeldt, C., Rodriguez, L.L., Pattnaik, B. and Arzt, J. (2016). *Foot-and-Mouth Disease Virus-Associated Abortion and Vertical Transmission following Acute Infection in Cattle under Natural Conditions*. *PLoS ONE* 11(12): e0167163. doi:10.1371/journal.pone.0167163. Impact Factor (2016): 2.806.

Foot-and-mouth disease (FMD) is a highly contagious and economically important viral disease of cloven-hoofed animals, including domestic and wild host species. During recent FMD outbreaks in India, spontaneous abortions were reported amongst FMD-affected and asymptomatic cows. The current study was an opportunistic investigation of these naturally occurring bovine abortions to assess causality of abortion and vertical transmission of FMDV from infected cows to fetuses. For this purpose, fetal tissue samples of eight abortuses (heart, liver, kidney, spleen, palatine tonsil, umbilical cord, soft palate, tongue, lungs, and submandibular lymph node) were collected and screened by various detection methods, including viral genome detection, virus isolation, and immunomicroscopy. Amongst these cases, gross pathological changes were observed in 3 abortuses. Gross pathological findings included blood-tinged peritoneal and pleural effusions and myocarditis. Hearts of infected calves had mild to moderate degeneration and necrosis of the myocardium with moderate infiltration by mixed inflammatory cells. Localization of FMDV antigen was demonstrated in lungs and soft palate by immunomicroscopy. FMDV serotype O viral genome was recovered from 7 of 8 cases. Infectious FMDV serotype O was rescued by chemical transfection of the total RNA extracted from three soft palate samples and was sequenced to confirm 100% identity of the VP1 (capsid) coding region with isolates collected from infected cattle during the acute phase of infection. Based upon these findings, it may be concluded that FMDV-associated abortion occurred among the infected pregnant cows included within this study and FMDV was subsequently transmitted vertically to fetuses. This is the first documentation of FMDV-associated abortions in cattle.



Digitalization of Pathological Specimens for Development of e-learning Tool in Veterinary Pathology

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The e-learning enables pathologists and clinicians for better access to the learning material quickly and effectively. A user friendly Registry of Pathology and Veterinary Pathology Museum web page was developed for mass learning of digitalized gross and their corresponding histopathology specimens. This interface is presently viewable at ICAR-IVRI, Izatnagar. It contains 5 menus namely Home, Species, Case Discussion, Photo Gallery and Contact Us, and two option boxes for Search and Suggestion. Under species menu, dropdown menu contains species, system and organ-wise cataloguing. Under each organ system, the gross and microscopic figures have been arranged into degeneration, necrosis / apoptosis, inflammation, circulatory disturbances, growth disturbances, neoplasm, congenital anomalies, infectious, nutritional, metabolic and immune mediated diseases. All the pictures with descriptions and possible interpretations have been described. The figures of complimentary tests have also been included, wherever possible. Under Case Discussion menu, complete case details-like history, clinical signs / symptoms, necropsy and histopathology and other ancillary tests have been depicted. The webpage is under development process. This facility is probably the first of its kind in India due to its unique classification and cataloguing system. On similar line, Prof. Ch. Srilatha, SVVU, Tirupati has started an Online Veterinary Pathology Museum with collective efforts of the staff, for the benefit of Veterinary Pathology students throughout India and it was been well received.



Division of Pathology, IVRI, Izatnagar Celebrates its 54th Establishment Day

The establishment day celebration activity of the Division was initiated for the first time in 2013 on its birthday- 6th September, since then it has become a continuous annual activity. This occasion provides an opportunity to remember forerunners, their glory and way forward. The Division what we see today is because of their sincere efforts and visionary approach. To carry forward the legacy, the Division with local chapter of IAVP jointly celebrates the day by holding seminar on the theme "In Quest of Understanding Pathology and Pathogenesis and Macro- and- Micro levels". The activities are planned on IAVP/ICVP pattern, so that newly admitted students are motivated, become friendly with the system and get ready for IAVP conference which is held every year.

This year, the day was marked with inauguration by Chief Guest Dr B.P. Mishra, Joint Director (Research), IVRI. Dr V.K. Gupta, Joint Director (CADRAD), Heads of Divisions, Retd. Guests Drs R.B. Rai, S.D. Singh, I.V. Mogha, senior Scientists viz. A.K. Sharma, K.P. Singh, G. Saikumar, the young scientists, students and staff of the Pathology and other Divisions were present on the occasion. At the outset, Dr Rajendra Singh, Head, welcomed the gathering, stated the purpose of the day, and highlighted the research work of retired pathologists and ongoing research work in the Division. The Chief Guest in his inaugural remark said that every Division should conduct such event to motivate the students and scientists. He further added that this time a new activity has been initiated by the Division by calling entries from scientists for photo competition of their unpublished research work. Such scientific activities definitely bring changes in research culture. Dr A.K. Sharma proposed the vote of thanks. After the inaugural function, plantation of saplings in MLB lawns was carried out by the scientists, students and staff. Thereafter, six posters on research work of students were visited and judged by the experts. The invited lecture on "Transcriptome analysis: Host response to pathogen" by Dr Ravi Kumar provided insight into pathogenesis of diseases using bioinformatics. A special lecture was also arranged on "Biowaste disposal-Know-how" by Dr Neerav Koharwal, I/C Human Hospital, ICAR-IVRI, Izatnagar for awareness among the students and scientists. In the afternoon session, quiz competition (25 students) and case presentation (8 nos.), on ICVP pattern were held for students. To connect phenotype with genotype, a lecture on "Genetics and its role in diseases pathogenesis" by Dr B.P. Mishra, Joint Director (Research) was delivered which was very interesting and highly informative. The photographs (15 nos.) of photo competition were also evaluated for the award. The above activities were organized by Dr Monalisa and Vidya Singh (Posters), Dr Pawan Kumar / Dr Saminathan, M. /Dr Tareni Das (Case presentations), Dr Asok Kumar, Dr Karikalan, M (Quiz), and Dr Saminathan M. (Photo completion). Dr K. Dhama helped in certificate, posters/banners printing and arranging mementos. Prior to valedictory function, a small cultural activity was presented by the students. In the valedictory function, Dr Rajendra Singh welcomed again the Chief Guest Dr B.P. Mishra, JD (Research) and others and thanked the staff for good team work. Dr B.P. Mishra appreciated the programme and distributed prizes to the winners including a memento and a certificate to Dr Rahul Kumar and his team (MVSc 1st year, first prize), Dr Megha Sharma and her team (MVSc 1st year, IInd prize), Dr Mamta Pathak and her team (PhD 1st year, IIIrd prize) and Dr Stephanie S. Pradhan and her team (PhD, 1st year, IIIrd prize) for poster presentation; Dr Suraj Baloni (MVSc 1st year, 1st prize), Dr Madhulina Maity (PhD IInd year, IInd prize), Dr Vineetha, S. (PhD 2nd year, IIIrd prize) for case presentation; Bhupesh Kamdi (PhD 2nd year, 1st prize), Dr Vineetha, S. (PhD 2nd year, Ist prize) and Dr Megha Sharma (MVSc 1st year, IInd prize) for quiz competition and Dr Vinay Kumar I.B. (MVSc 1st year, Ist prize), Dr R. Khetmalis (PhD 1st year, IInd prize), Dr Vineetha, S. (PhD 2nd year, IInd prize) and Dr Anjali M. Sonphule (PhD IIIrd year, IIIrd prize) for photo competition. The function ended on a happy note.



1: Group photo of Joint Director's, faculty, staff and students. 2: Special lecture by distinguished speaker
3: Dr B.P. Mishra Joint Director, Research giving prizes to winner students

NEW APPOINTMENTS

Dr C.K. Singh joined as Professor and Head, Department of Veterinary Pathology, GADVASU, Ludhiana

Dr C.K. Singh joined as Professor and Head, Department of Veterinary Pathology, GADVASU, Ludhiana on 1st April, 2017. In addition to this, Dr Singh, Senior Veterinary Pathologist is also In-Charge of Animal Disease Research Centre (ADRC) of GADVASU and Director, CAFT in Veterinary Pathology. He is known for his work on rabies. Recently, he was awarded Fellowship of IAVP.



Dr D. Basheer Ahamad Joins as Professor at VCRI, Ramayanpatti, Tirunelveli (TN)

Dr D. Basheer Ahamad, MVSc, PhD., PGDEVP was appointed as Professor with effect from 19.6.2016 under Career Advancement Scheme in the Veterinary and Animal Sciences Faculty at Department of Veterinary Pathology, Veterinary College and Research Institute, TANUVAS, Ramayanpatti, Tirunelveli, Tamil Nadu. He joined as Professor on 9.8.2017. Dr Basheer Ahamad did his BVSc, MVSc (Veterinary Pathology) and PG Diploma in Ethnoveterinary Practices at TANUVAS. He did his PhD degree in Veterinary Pathology at Indian Veterinary Research Institute, Izatnagar, Bareilly, UP. He is having 14 years experience and specialized in Toxicologic pathology and experimental oncology.



He started his career as Assistant Professor at Division of Veterinary Pathology, Faculty of Veterinary Sciences and Animal Husbandry, Sher-e-Kashmir Agricultural Sciences and Technology of Jammu, J & K State and worked here from 2003 to 2010. He was further Selected as Assistant Professor at Veterinary University Training and Research Centre, TANUVAS, Thanjavur. Here, Dr Basheer Ahamad worked from 2010 to 2012 and from 2012 to 2013 at Department of Veterinary Pathology, Veterinary College and Research Institute, Orathanadu, Thanjavur District. He was instrumental in establishment Department of Veterinary Pathology, in new Veterinary College and Research Institute, TANUVAS, Orathanadu. He became Associate Professor in 2013 and worked at Department of Veterinary Pathology, Veterinary College and Research Institute, TANUVAS, Orathanadu, Tamil Nadu up to August, 2017. Dr D. Basheer Ahamad is one of the renowned teacher, researcher and extension worker. He has taught both undergraduate and post graduate students. He has published about 65 research papers in national and international journals, 30 popular articles (Tamil and English), 27 pamphlets (Tamil) and 10 farmers' guides / manuals (Tamil). He has presented about 85 research papers and 10 lead papers in national conferences/ seminars/ workshops. He was Principal Investigator, Co- Principal Investigator and Co-Research Worker in dozens of internal and externally funded research projects. He has investigated 86 numbers of disease outbreaks in livestock, poultry and fisheries. He has organized/ associated with seminars/workshops (15), on-campus training programmes (52), off-campus training programmes (105), Inter institutional HRD programme (19), mass conduct programme (63), participated village visit and stay program/ farm visit programmes (134), etc. for farming communities.

Dr Jaynudin H. Khorajiya, BVSc & AH (2012, SDAU, Gujarat), MVSc (2014, AAU, Gujarat) and PhD student (Veterinary Pathology) from Deemed University, ICAR-IVRI, Izatnagar has joined as Assistant Professor at Department of Pathology, College of Veterinary Science & Animal Husbandry, DUVASU, Mathura on 10th April 2017. He is co-author of a book entitled "Veterinary Pathology with Purely Multiple Choice Questions" alongwith Dr T.J. Sheikh, Reula, M.P. published in 2015 by Kalyani Publishers, New Delhi.



Dr P.C. Prabu has joined as Assistant Professor at Madras Veterinary College, TANUVAS, Chennai on 15.06.17. He did his MVSc in Veterinary Pathology at the Deemed University, Indian Veterinary Research Institute, Izatnagar, UP in 2004. Dr Prabu cleared his board certification in Veterinary Pathology (DICVP) in 2010 and completed his board certification in Toxicologic Pathology (DIBTP) conducted by the Indian Board of Toxicologic Pathologists in 2013. He has been working as Assistant Professor at SASTRA University for the last 11 years and has established an NABL Accredited Histopathology Laboratory involved especially in toxicity evaluation of drugs of alternative systems of medicine and nanoparticles / biomaterials. He is the recipient of IFSTP (International Federation of Society of Toxicologic Pathologists) Student Travel Grant Award (2012) for the Best Doctoral Research in the area of Toxicologic Pathology from India and Charles Capen Trainee Award (2014) for demonstrated achievements in the field of Toxicologic Pathology awarded by the International Academy of Toxicologic Pathology. He is the author of research papers in reputed journals including *Experimental and Toxicologic Pathology*, *Drug and Chemical Toxicology*, *Chemico-Biological Interaction*, *Frontiers in Microbiology*, etc.



Dr K. Thilagavathi, MVSc, joined as Assistant Professor in the Department of Veterinary Pathology, Veterinary College and Research Institute, Namakkal, TANUVAS on 17th June, 2017. She graduated from Madras Veterinary College, Chennai in 2011 and did her postgraduation in Veterinary Pathology at the Department of Veterinary Pathology, Veterinary College and Research Institute, Namakkal in 2015. Dr Thilagavathi worked as a Manager in the Erode District Co-operative Milk Producers Union Ltd for a period of 8 months during September, 2016 to June, 2017 before joining TANUVAS.



BOOKS RECEIVED

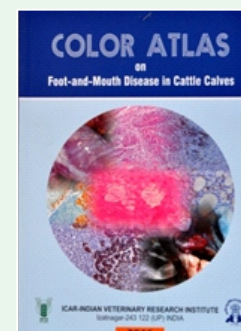
Veterinary Pathology with Purely Multiple Choice Questions by T.J. Sheikh and J.H. Khorajiyia, College of Veterinary Sciences, Rewa, MP, Kalyani Publishers, New Delhi. Paper Back, Pages 389, Price Rs 325/-, 2015.

To meet the requirements of Veterinary Pathology curriculum for under graduate, post graduate and PhD scholars for ICAR-NET, ICAR-ARS Examination for post of scientists, State Agricultural University (SAU) and Deemed University, IVRI entrance examination for PhD programme; present book was compiled. The book contains 4,175 multiple choice questions (MCQ) which covers areas of General Veterinary Pathology (including Immunopathology, Nutritional Pathology and Genetically determined diseases), Special Veterinary Pathology (including Fish Pathology, Emerging and Re-emerging diseases), Veterinary Systemic Pathology and Poultry Pathology (including emerging, re-emerging and exotic diseases of poultry), Veterinary Clinical Pathology (including Toxicopathology, Techniques in Pathology and Diagnostic Pathology) and Laboratory Animal Pathology. It is believed that book will be a suitable guide to scholars for competitive examinations.



Color Atlas on Foot-and-Mouth Disease in Cattle Calves by Drs. R. Singh and 14 authors, Division of Pathology, ICAR-IVRI, Izatnagar, UP. Publishers: Director, ICAR-Indian Veterinary Research Institute, Izatnagar, UP, Paper back, on quality glassy paper, Pages 60, Color Plates 77, 2016, Price-Not mentioned.

Color Atlas contains quality gross and IHC and H&E stained microscopic pictures of FMD lesions and their descriptions. Color Atlas will be useful to post graduate, doctoral students, disease diagnosticians and research workers in understanding devastating nature of FMDV. Its copy may be obtained from Dr R. Singh, Head, Division of Pathology, ICAR-IVRI, Izatnagar-243122 (UP), Contact details: rajendra_singh5747@rediffmail.com



Professor N. Vijayan Superannuated in October, 2016

SUPERANNUATIONS

Dr N. Vijayan was born on 01st November 1956 at Mavelikkara, Alappuzha district in Kerala. After his early school education in Cochin he completed graduation in the year 1978 from College of Veterinary and Animal Sciences, Mannuthy under Kerala Agricultural University. Later, he did his Masters in Veterinary Pathology under the able guidance of Dr A. Rajan, an eminent Veterinary Pathologist. His work was of pioneering nature in the field of exfoliative cytology for the early diagnosis of sinus (ethmoid) tumours in domestic animals. He served the Indian Army in the Remount and Veterinary Corps, as a Short Service Commissioned Officer for six and half years. As a post graduate in Veterinary Pathology he was posted to work in Central Military Veterinary Laboratory in Meerut, UP which is an institution of repute in Remount and Veterinary Corps. He also served in counter insurgency inflicted field areas in the North-Eastern Region of the country. He acquired his doctorate from Kerala Agricultural University with specialization on immunotoxicopathology in ducks to sub lethal toxicity to pesticides in the year 1998. He was instrumental in establishment and scaling up of Rabies Diagnosis and Research Cell at College of Veterinary and Animal Sciences both at Mannuthy and Pookote.



He guided two Ph D students and 12 MVSc students as major advisor and many more as minor advisor. He was Principal Investigator in DST (Govt. of India) sponsored project entitled 'Reproductive pathology in two strains of white leghorn birds with emphasis on endocrine system' and 7 State Plan funded projects. He has published more than 100 research papers in peer reviewed journals and popular articles in English dailies and 16 articles in Malayalam and contributed chapters in Malayalam books published by KAU. Dr Vijayan served as referee for various National Scientific journals and E journals. He was frequently invited as a resource person for the farmers counselling classes, seminars and talks in All India Radio. He served as external examiner, question paper setter for undergraduate and post graduate courses in Veterinary Pathology. He held various administrative positions like-Member, General Council, KAU, Scientific Officer in the office of the Vice Chancellor, Expert in Government Committees etc. He was the Organizing Secretary of the 4th South Zone Conference of the IAVP, held at Pookote on 11th and 12th of Feb., 2015. He remained as the President/General Secretary of IAVP (Kerala Chapter) for a long period and was responsible for the coordination of activities of IAVP in Kerala.

Dr Vijayan had keen interest in sports and games and always encouraged his students in extracurricular activities for their integrated personality development. He was also NSS Programme Officer for five years. Dr Vijayan superannuated as Professor and Head, Department of Veterinary Pathology, College of Veterinary and Animal Sciences, Mannuthy on 31.10.2016 after putting in 37 years of teaching, research and extension experience in Kerala Agricultural University and Kerala Veterinary and Animal Sciences University put together. **IAVP wishes very-very happy, healthy, peaceful and prosperous post superannuation active life to Dr N. Vijayan.**

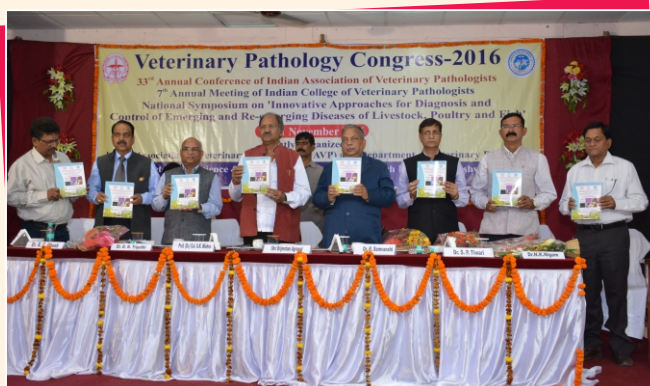
Dr C. Balachandran Superannuated in July, 2017

Dr C. Balachandran, Dean, Madras Veterinary College and Faculty of Veterinary and Animal Sciences, Tamil Nadu Veterinary and Animal Sciences University and former Registrar, TANUVAS, Chennai, India retired on 31.07.2017 on superannuation. He was born on 28.07.1957 and obtained his all degrees from Madras Veterinary College. He was recipient of university gold medal for the Best Ph D. Thesis in avian pathology. He was awarded IAVP-Dr Nemi Chand Jain Lifetime Achievement Award in 2013. He joined the University as Assistant Professor in 1980, became Associate Professor in 1988 and Professor in 1996. He has published more than 400 scientific articles (68 International). He has guided 9 PhD and 12 MVSc students. His areas of interests are avian mycotoxicoses, avian pathology, toxicologic pathology, cancer biology and experimental oncology. He has conducted more than 40 training programmes, organized two IAVP



Annual Conferences and two Zonal Conferences besides two International and several National Conferences and one ICAR Summer School and one Toxicopathology Workshop. He was Chair, Examination Committee, ICVP and successfully conducted four ICVP Board Examinations. Dr Balachandran was associated with development of a vaccine for *V. alginolyticus* infection for cobia fish. He was associated with identification of new LTR and ENV genes of Jaagsiekte in sheep and goats and *Vibrio parahaemolyticus*-tox-R gene in *Litopenaeus vernalis* shrimp and *V. alginolyticus*-collagenase gene in cobia fish. He was awarded FAO Fellowship in Avian Pathology. He was Vice President, IAVP also awarded chartered Membership (Founding Father) of Indian College of Veterinary Pathologists (ICVP) and became board certified pathologist of ICVP. He has more than 75 awards to his credit. He was given Tamil Nadu State Scientist Award, 2014 in Veterinary Science. Nipple aspirate fluid cytology was developed by him for early diagnosis mammary tumour in dogs. His student got the coveted ICAR- Jawaharlal Nehru Award for the Best PhD Thesis in 2005. He is Fellow of Indian Association of Veterinary Pathologists, National Academy of Veterinary Sciences and Academy of Science for Animal Welfare. IAVP wishes very-very happy, healthy, peaceful and prosperous post superannuation active life to Dr C. Balachandran.

Glimpses of Veterinary Pathology Congress, Durg, CG, 2016



For detailed Conference Proceedings and Technical Report please visit : IAVP website www.iavp.org

"In Memoriam"

*I hold it true, whate'er befall;
I feel it when I sorrow most;
'Tis better to have loved and lost
Than never to have loved at all*

- Alfred, Lord Tennyson



Prof. P.K.R. Iyer
(1929-2017)



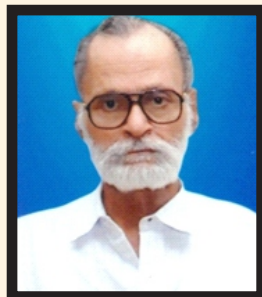
Prof. B.C. Nayak
(1930-2017)



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(1931-2016)



Dr S.K. Chattopadhyay
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(1938-2014)



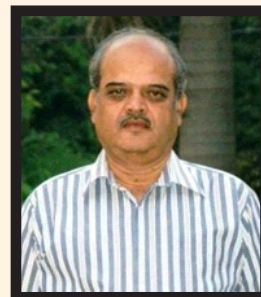
Dr A.P. Pandey
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(1953-2017)



Dr U.K. Garg
(1955-2017)

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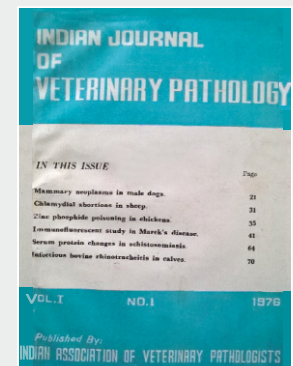
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Edited by Prof. P.K.R. Iyer

IAVP pays tributes to all departed stalwarts. For details please visit-
IAVP Website- Home Page- Obituary.