

Study Visit to Udine, ITALY

July 27 to August 1, 2008

**Dr. P.G. Adsule
Director**





Genesis



- ❖ Organized by the Udine Chamber of Commerce, Udine (Italy) in coordination with the Indo-Italian Chamber of Commerce & Industry, Mumbai in response to the visit of delegation from Italy to the National Research Centre for Grapes (NRC Grapes) in April 2008.
- ❖ It was focused to visit the University of Udine, Genomic Applied Institute, Nurseries and local companies/organizations active in production of wine and equipments besides training and education and finally developing some topics of common interest in the field of research in the sector of wine grape growing



Purpose of visit and period

- ❖ To visit the University of Udine, Genomic Applied Institute, Nurseries and local companies/ organizations active in production of wine and equipments besides training and education and finally developing some topics of common interest in the field of research in the sector of wine grape growing

- ❖ 26th to 27th July 2008 : Travel to Italy.
- ❖ 27th to 31st July 2008 : Stay in Italy.
- ❖ 1st to 2nd August 2008 : Travel back to India



Sponsoring Agency



- ❖ The Udine Chamber of Commerce of the Govt. of Italy and the Department of Agricultural Research and Education (DARE), Ministry of Agriculture, Govt. of India, New Delhi



Institutes visited / Personnel approached



- ❖ University of Udine, Udine, Italy.
- ❖ Genomic Applied Institute, Udine, Italy.
- ❖ VITIS Rauscedo, Italy.
- ❖ VIVAI Cooperative Rauscedo, Udine, Italy.
- ❖ Technical Agricultural School, Cividale, Udine, Italy.
- ❖ Vini La Delizia, Udine, Italy.
- ❖ Infox, Friuli, Italy.













University of Udine Wine Research Farm1



University of Udine Wine Research Farm2



Corn field by the side of Grapevine



























Close view of drip Irrigation System









Bioinformatics Centre





Genomic Centre Lab





Genome analyser at Genomic Centre



EuroTech



























































Conclusion



- ❖ The work going on in Genomic Applied Institute of the University is of advanced nature and on large scale as compact to work going on in biotechnology lab of our Institute. The work going on in the area of Bioinformatics and selection of genes and primers is of great importance to us and, therefore, we have to develop collaboration in this area of work.
- ❖ University of Udine has the best collection of different species of grape including hybrids, new clones and therefore there is need to obtain this information from them about germplasm stock and obtain the material which is absent in our germplasm at NRC Grapes.



- ❖ Information generated by University in farm mechanization, particularly, the chemical spraying machines and other machines for general cultivation and wine grape harvesting and processing is of importance to us for collaboration
- ❖ Visit to two leading grape nurseries based on cooperative structure was an eye opening for the production of quality plant material and development of new clones/varieties based on their evaluation in mini-vinification units.



- ❖ A visit made to cooperative winery unit in Pordenone area of Friuli region gave idea about the scale of operation, grape area coverage, type of machines and vinification followed for quality wine production, wine packing, labeling and quality evaluation of wine grapes at the receipt of winery and wine types.
- ❖ There is need to improve our wine tanks particularly for the monitoring system of temperature and aeration which are importance in the context of Indian wineries



Recommendation



1. To update our germplasm at Institute level by obtaining new grape varieties and hybrids after screening their germplasm catalogue vis-à-vis our catalogue. Similar approach has to be followed in the area of biotechnology to obtain information on new genes and primers for improving our methodology for identification of germplasm varieties and species
2. Import of mini farm mechanization equipments, particularly, chemical spraying machines and other types for their evaluation and suitability in the Indian vineyards

- 3. To study nursery and propagation techniques available with Italian nurseries and develop the same system for Indian viticulture industry**
- 4. Indian wineries to follow type of cooperative structure scale of operation, machinery/equipments used for wine production and quality testing of both wine and fresh wine grapes received at the winery. Besides, their approach of selling fresh and local type wines in the market both in consumer and bulk packs has to be followed by Indian wineries**
- 5. To develop and establish viticulture and wine making schools to impart training to young boys and girls below 18 years to work as technicians in Indian wineries based on the pattern of Agriculture Technology School in Cividale area of Friuli region of Italy.**



Acknowledgements



- ❖ DARE, Ministry of Agriculture, Govt. of India
- ❖ Dr. Mangala Rai, Secretary, DARE and DG, ICAR,
- ❖ Shri A.K. Upadhyay, Secretary, ICAR
- ❖ Dr. H.P. Singh, DDG (Hort.), ICAR
- ❖ Shri Madan Lal, Under Secretary IC(AV), DARE
- ❖ Ms. Ketty Brunetti and Ms. Nadia Spagnuolo, International Trade & Promotion Department, Chamber of Commerce, Udine
- ❖ Dr. Enrico Peterlunger and Mr. Rino Gubiani, University of Udine
- ❖ Dr. Michele Morgante, Scientific Director, Genomic Applied Institute, Udine
- ❖ Mr. Pietro Biscontin, Director, Vini La Delizia
- ❖ Mr. Piccoli Massimo, VITIS Rauscedo
- ❖ Ms. Cinzia Piva, Mr. Paolo Battigello, Prof. Pietro Zandigiacomo, Mr. Lao Filligoi, Infox Friuli and Ms. Rossella Mainardis

Thank You