**FD TRAINING MODULES – *SESSION #1***

**Material to the ISS**

The following material is intended for the ISS that has to teach the TM.

The contents are reported in form of a list, first the videos (they are easy and faster to get knowledge from) than the Technical Datasheets (they are generic and still easy to access) and last the Scientific Abstracts (they are the most difficult of the 3).

The materials on top of each section is the most relevant for the training session, the others complete the knowledge of the ISS on the topic.

INFORM ON FD

* VIDEO MATERIAL

<http://www.winetwork-data.eu/en/video/state_of_the_art_of_scientifical_research_on_flavescence_doree_sc_16038.htm> (The seminar reports the present scientific knowledges on Flavescence dorèe; the recognition of the infection through the most characteristic symptoms and the differences with other pathologies such as Bois noir. The video also shows the vector insect Scaphoideus titanus and its relationships with the phytoplasm, the control of the pathology at plant, estate and region levels.)

<http://www.winetwork-data.eu/en/video/questions_and_answers_on_flavescence_doree_sc_38.htm> (general question and answer on FD)

<http://www.winetwork-data.eu/en/video/flavescence_doree_experiences_with_the_collective_management_in_france_sc_16007.htm> (This Video describes the actions made in Burgundy in order to manage the expansion of Flavescence Dorée and all the “good practices” that could be transferred to the other wine regions in Europe.)

<http://www.winetwork-data.eu/en/video/winetwork_output_monitoring_the_young_insect_of_scaphoideus_titanus_vectors_of_flavescence_doree_sc_15957.htm> (A video that shows how the vector insect looks like and how to count its population in the field)

<http://www.winetwork-data.eu/en/video/practices_against_fd_sc_16033.htm> (this video shows the results of a European investigation, lasted 3 years and made in 7 different countries, on the practices against FD.)

* TECHNICAL DATASHEETS

<http://www.winetwork-data.eu/en/technical_articles/technical_datasheet_a_guide_of_good_practices_in_regions_without_fd_sc_16487.htm> (some good practices that can prevent the diffusion of FD)

<http://www.winetwork-data.eu/en/technical_articles/euphresco_grafdepi_final_report_sc_15449.htm> (‘Epidemiological studies on reservoir hosts and potential vectors of Grapevine Flavescence dorée (FD) and validation of different diagnostic procedures for GFD)

<http://www.winetwork-data.eu/en/technical_articles/technical_datasheet_hot_water_treatment_hwt__sc_16488.htm> (How water treatment as a method to counter the spreading of FD)

<http://www.winetwork-data.eu/en/technical_articles/most_popular_practices_in_europe_against_fd_sc_15979.htm> (some of the most popular practices, adopted is several European regions, in order to fight FD)

<http://www.winetwork-data.eu/en/technical_articles/distribution_of_scaphoideus_titanus_eggs_on_grapevine_sc_15460.htm> (Distribution of Scaphoideus titanus eggs on grapevine)

<http://www.winetwork-data.eu/en/technical_articles/technical_datasheet_mating_disruption_sc_16489.htm> (Mating Disruption using Vibrational Signals to disturb the behaviour of S. titanus)

* SCIENTIFIC ABSTRACTS

<http://www.winetwork-data.eu/en/scientific_abstract/patterns_of_phytoplasma-infected_and_infective_scaphoideus_titanus_leafhoppers_in_vineyards_with_high_incidence_of_flavescence_doree_sc_15471.htm> (Patterns of phytoplasma-infected and infective Scaphoideus titanus leafhoppers in vineyards with high incidence of Flavescence dorée)

<http://www.winetwork-data.eu/en/scientific_abstract/epidemiology_of_flavescence_doree_in_vineyards_in_northwestern_italy_sc_15458.htm> (Epidemiology of Flavescence Dorée in Vineyards in Northwestern Italy)

<http://www.winetwork-data.eu/en/scientific_abstract/lamp_assay_and_rapid_sample_preparation_method_for_on-site_detection_of_flavescence_doree_phytoplasma_in_grapevine_sc_15451.htm> (A fast assay to state the presence of FD on the field)

<http://www.winetwork-data.eu/en/scientific_abstract/triplex_real-time_pcr_assay_for_sensitive_and_simultaneous_detection_of_grapevine_phytoplasmas_of_the_16srv_and_16srxii-a_groups_with_an_endogenous_analytical_control_sc_15452.htm> (A fast assay to state the presence of FD on the field)

<http://www.winetwork-data.eu/en/scientific_abstract/spatiotemporal_distribution_of_flavescence_doree_phytoplasma_in_grapevine_sc_15457.htm> (Spatiotemporal distribution of flavescence dorée phytoplasma in grapevine)

<http://www.winetwork-data.eu/en/scientific_abstract/a_case_study_of_fd_and_bn_phytoplasma_variability_in_croatia_multigene_sequence_analysis_approach_sc_15450.htm> (A case study of FD and BN phytoplasma variability in Croatia multigene sequence analysis approach)

<http://www.winetwork-data.eu/en/scientific_abstract/flavescence_doree_phytoplasma_titre_in_field-infected_barbera_and_nebbiolo_grapevines_sc_15455.htm> (Flavescence dorée phytoplasma titre in field-infected Barbera and Nebbiolo grapevines)

<http://www.winetwork-data.eu/en/scientific_abstract/metabolic_and_transcript_analysis_of_the_flavonoid_pathway_in_diseased_and_recovered_nebbiolo_and_barbera_grapevines__sc_15456.htm> (recovery from FD)

<http://www.winetwork-data.eu/en/scientific_abstract/temporal_dynamics_of_scaphoideus_titanus_populations_from_annual_occurence_patterns_to_changing_climate_suitability_assessments_sc_15459.htm> (Temporal dynamics of Scaphoideus titanus populations from annual occurence patterns to changing climate suitability assessments)

<http://www.winetwork-data.eu/en/scientific_abstract/biology_and_ecology_of_the_flavescence_doree_vector_scaphoideus_titanus_a_review_sc_15461.htm> (Biology and ecology of the Flavescence dorée vector Scaphoideus titanus a review)

<http://www.winetwork-data.eu/en/scientific_abstract/comparing_the_spatial_genetic_structures_of_the_flavescence_doree_phytoplasma_and_its_leafhopper_vector_scaphoideus_titanus_sc_15462.htm> (Comparing the spatial genetic structures of the Flavescence Dorée phytoplasma and its leafhopper vector Scaphoideus titanus)

<http://www.winetwork-data.eu/en/scientific_abstract/tracking_the_dispersion_of_scaphoideus_titanus_ball_hemiptera_cicedellidae_from_wild_to_cultivated_grapevine_use_of_a_novel_mark-capture_technique_sc_15444.htm> (Tracking the dispersion of Scaphoideus titanus ball( Hemiptera Cicedellidae) from wild to cultivated grapevine use of a novel mark-capture technique)

<http://www.winetwork-data.eu/en/scientific_abstract/research_and_management_oriented_sampling_plans_for_vine_inhabiting_scaphoideus_titanus_grape_leafhopper_nymphs_sc_15467.htm> (This paper summarizes the methodology used for describing the spatial distribution of the grape leafhopper Scaphoideus titanus in a vineyard)

<http://www.winetwork-data.eu/en/scientific_abstract/attractiveness_of_different_colours_to_scaphoideus_titanus_ball_hemiptera_cicadellidae_adults_flavescence_doree__sc_15468.htm> (field tests were performed to ascertain a possible role of visual cues for Scaphoideus titanus during the location of a host plant)

<http://www.winetwork-data.eu/en/scientific_abstract/spatial_distribution_of_nymphs_of_scaphoideus_titanus_homoptera_cicadellidae_in_grapes_and_evaluation_of_sequential_sampling_plans_sc_15465.htm> (The spatial distribution of the nymphs of Scaphoideus titanus Ball)