Les Conférences du Grand Réseau de Recherche VASI

Végétal - Agronomie - Sols - Innovation

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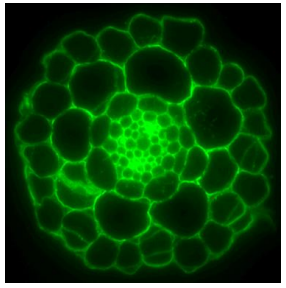

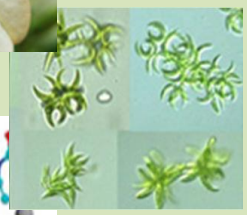

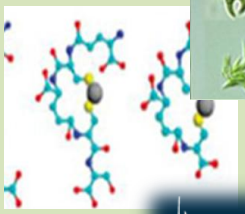

ArterraBioscience

Lundi 9 décembre à 11h

Bâtiment Monod - salle V. Contesse - Mont-Saint-Aignan

Plant tissue cultures as source of cosmetic active ingredients

Dr Fabio Apone

Arterra Bioscience srl, Napoly, Italy

Cosmetic research is constantly looking for innovative plant ingredients, which must be guaranteed for quality and safety to the final consumers. Unfortunately, many plant derived products can be used limitedly because many plants of cosmetic interest are rare, may contain toxic compounds, can be subjected to diseases and differ in the content of metabolites seasonally and from harvest to harvest. By using biotechnological approaches, plant cells and tissues can be easily cultivated in sterile conditions, totally independently of geographical and climatic factors, thus represent a very relevant system for the production of valuable metabolites.

Plant cell suspension cultures have been successfully used as sources of cosmetic active ingredients having different chemical nature, and a wide range of cosmetic activities. Besides plant cell cultures, alternative biotechnological approaches can be adopted in case active ingredients with more specific functions were required. One example is provided by the generation of hairy root cultures in the laboratory, which represent a novel and promising system for the production of certain class of more specific secondary metabolites with interesting cosmetic applications.

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