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## Structure information from HPLC and on-line measured absorption spectra: Flavones, flavonols and phenolic acids applied to specie-specific identification of plants using pollen extracts

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The tools used in scientific research are constantly changing and HPLC with photodiode array detection technique has become an important and popular technology used in studies such as plant extract analysis, drug discovery and development, the monitoring of manufacturing processes and quality assurance. The HPLC/photodiode array technique is also an important base tool of pure science. Campos and Markham have developed theoretical rules that will aid users of this technique in the identification of the structures of the titled compound types, providing a compilation of valuable and unique reference material, gathered using strictly controlled conditions.

These compound types are widely encountered in bioactive plant components but can be used too identification of plants using the HPLC/DAD profiles of phenolic and polyphenolic compounds from pollen extracts as fingerprints. This method will have appeal not only to academic chemists but also for example to biologists, food technologists, pharmacologists, pharmacists, the health supplements industry and the colourant industry.

The data base was built using floral pollen hand collected and/or from herbarium. The flavonoid/phenolic acid profiles are carried out with fresh material collected and the result of HPLC/DAD fingerprint is subsequently compared with the data base.

## Biography

Maria da Graça Campos has completed her Ph.D in 1997 from Coimbra University, Portugal and postdoctoral studies in 2000 from Industrial Research, Ltd at Lower Hutt, New Zealand. She is the director of Observatory of Herbal-Drug Interactions, the first organization on this research field and the Director of Pharmacovigilance Center of Herbal–Drug Interactions, aculdadedeFarmácia,Universidade de Coimbra, a premier organization on this research field in Portugal She has published more than 60 papers in reputed journals and books and serving as an editorial board member of 3 reputed scientific journals.

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