

ESF WORKSHOP ON "MOLECULAR RECOGNITION IN METALLOPROTEINS"

23 - 26 October 1997
Sevilla, Spain

Organized by Miguel A. De la Rosa (Sevilla) & Carlos Gomez-Moreno (Zaragoza)

SCOPE AND AIM

One of the main goals of modern protein chemistry is the understanding of structure-function relationships in biological molecules, that is, how a molecule with a precise spatial conformation and specific properties plays a particular role in the gearing of the cellular machinery. This is what we now call "molecular recognition", the means by which molecules recognize other molecules to interact with them - either forming active complexes so as to fulfill a specific role, such as transferring atoms or electrons between them, or for any other function as well. Despite the fact that we know a great deal about molecular recognition, even more still remains unknown: How molecules interact one with others inside the cells? What are the factors that control the reaction mechanisms? Which are the structural features that determine the physiological function? During this three-day meeting in Seville the state-of-the-art on this subject will be discussed.

TOPICS TO BE COVERED

Cytochromes and their redox partners
Cu-containing proteins
Ferredoxins and oxidoreductases
Non-redox metalloproteins
Crystal and solution structures of proteins complexes
Algorithms used for prediction of molecular interactions
Current trends in macromolecular recognition

Names of invited speakers (who have already accepted):

X. Aviles (Spain), L. Banci (Italy), R. Bernhardt (Germany), H. Bohme (Germany), H. R. Bosshard (Switzerland), M. A. Carrondo (Portugal), S. Chapman (UK), R. Crichton (Belgium), J. Fontecilla-Camps (France), M. Frey (France), J. Hadju (Sweden), M. Hervas (Sevilla), P. Kroneck (Germany), L. Kuhn (Germany), P. Lindley (UK), M. Medina (Spain), J. Meyer (France), J. Moura (Portugal), I. Pecht (Israel), S. Sligar (USA), M. Sternberg (UK), G. Sykes (UK), J. Ulstrup (Denmark), G. Zanetti (Italy).

The opening lecture will be addressed by Prof. R. Huber (Germany), awarded the Nobel Prize in Chemistry 1988 for the determination of the 3D structure of a photosynthetic reaction center.

Participation is limited to 50 including 25 invited speakers. The fee for attending the meeting includes accomodation and meals; it amounts to 1,400 FF in double room and 1,600 FF in single room.

The workshop will be held in Seville, the capital of Andalusia which is an extensive region in South Spain stretching over the Sierra to the sea. Seville is readily accessible by air, train and road.

Applications, which should include a short CV (1-2 pages), a list of publications, fax number and e-mail address, should be sent to:

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