

COLYN CRANE-ROBINSON

CV

SCIENTIFIC LEADER AT:

50 YEARS OF HISTONE ACETYLATION

BARCELONA CONFERENCES ON
EPIGENETICS AND CANCER

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Colyn Crane-Robinson, Emeritus Professor at [University of Portsmouth](http://www.port.ac.uk), Portsmouth, UK

Emeritus Professor of Biochemistry at the University of Portsmouth, UK, who has been involved in structure/function relationships of histones since the mid-sixties. Initiator in 1988 of chromatin immuno-precipitation techniques using antibodies to acetylated histones and a continuing advocate of this approach to establishing the epigenetic landscape of cells. His current scientific interests are: the role of histone modifications, in particular acetylation and methylation, in the control of gene activation/repression and in defining local chromatin structure. The Structure/function relationships for the HMG box domain and its binding and bending of DNA using NMR and micro-calorimetry (DSC and ITC) - plus optical techniques. And also, the structure of the chromatosome and the 30 nm chromatin fibre studied by reconstitution: crystallography for the former and FRET for the latter by incorporation of labeled nucleosomes at defined positions in long arrays.

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