



# Proteomics and Nanocrystallography

*Eugenia Pechkova, C. Nicolini*

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The book addresses the most recent developments in structural and functional proteomics underlying the recent contributions given in these areas by our laboratory to the instrumentations, the methods and the procedures as mutated from the nanoscale sciences and technologies. These developments introduced in the last few years make now possible protein massive identification (mass spectrometry and biomolecular arrays down to nanoamounts) and protein structural characterization in solution and in crystals down to the atomic scale to an extent and to a degree so far unmatched. Emphasis is placed in the growth by nanobiofilm template of protein crystals of any type and size from millimeter to micron, leading in combination with microfocus synchrotron technology and atomic force microscopy to the definition of a new field called nanocrystallography. The few useful examples being shown, concerning yet structurally unsolved proteins, point this very promising approach nanotechnology-based in structural proteomics using highly focused X-rays. This has not to be confused with the important study of nanocrystals, both organic and inorganic, and novel diamond like nanocomposite materials and devices having 3D protein crystals as matrices to be equilibrated with nanoparticles/gold/silver to be utilized in the most diversified electronic applications here also summarized. vii Acknowledgments We are particularly grateful to Giuseppe Zanotti at the University of Padova for his fundamental collaboration during all the crystallographic studies.

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