

Irene M. Mavridis obtained the Degree of Chemistry from the National and Kapodistrian University of Athens. After a short stay in NRC "Demokritos", as a post-graduate student (with Dr C. Zioudrou on asymmetric synthesis), she enrolled in the graduate program of Michigan State University USA, where she earned a PhD in Physical Chemistry (1975, Prof. Alexander Tulinsky). Thesis title "Structure Determination of 2-keto-3-deoxy-6-Phosphogluconate Aldolase (*Pseudomonas Putida*) at 3.5Å Resolution". In 1976, she joined the Institute of Physical Chemistry of NCSR "Demokritos" (NCSR-D). During the years 1976, 1978, 1979-1980 and 1987 she has been a visiting researcher at Michigan State University for time periods of 3-12 months. She directed the Laboratory of Structural and Supramolecular Chemistry from 1995 till her retirement in 2011. Research interests: molecular structure determination by X-ray crystallography; organization and structure-function relations of cyclodextrins and their inclusion complexes, as well as photochromism/thermochromism of Schiff bases; structural determination of biological macromolecules.

I. M. Mavridis was in charge of the Laboratory of Macromolecular Crystallography in NCSR-D since its establishment in 1998 and Chair of the Hellenic Crystallographic Association for several terms. She has co-organized several international conferences, workshops and schools and has served in numerous scientific committees in Greece and in other European countries. Moreover, she has served as a PI or collaborator in numerous research projects and networks.

I. M. Mavridis has authored and co-authored 116 articles in international refereed journals (of which 6 are book chapters), five patents and has presented her research in more than 120 international conferences. Number of citations, 4406 (Google Scholar).

#### SELECTED PEER-REVIEWED JOURNAL PUBLICATIONS (OF TOTAL 116)

1. Makedonopoulou, S., Mavridis, I. M., Yannakopoulou, K., Papaioannou, J. *Organization of long aliphatic monocarboxylic acids in  $\beta$ -cyclodextrin channels. crystal structures of the inclusion complexes of tridecanoic acid and (z)-tetradecenoic acid in  $\beta$ -cyclodextrin.* *J. Chem. Soc. Chem. Commun.*, **1998**, 2133-2134.
2. Pinotsis, N., Leonidas, D. D., Chrysina, E. D., Oikonomakos, N. G., Mavridis, I. M., *The binding of beta and gamma-cyclodextrins to glycogen phosphorylase b: kinetic and crystallographic studies.* *Protein Sci.*, **2003**, 12, 1914-1924.
3. Hadjoudis, E., Mavridis, I.M. *Photochromism and Thermochochromism of Schiff Bases in the Solid State: Structural Aspects.* *Chem. Soc. Rev.*, **2004**, 33, 579- 588.
4. Zou, P., Pinotsis, N., Lange, S., Song, Y-H., Popov, A., Mavridis, I., Mayans, O. M., Gautel, M., Wilmanns, M. *Palindromic assembly of the giant muscle protein titin in the sarcomeric Z-disk.* *Nature*, **2006**, 439, 225-228.
5. Saridakis, E., Giastas, P., Efthymiou, G., Thoma, V., Moulis, J-M., Kyritsis, P., Mavridis, I.M. *Insight into the protein and solvent contributions to the reduction potentials of [4Fe-4S]<sup>2+/+</sup> clusters: Crystal structures of the *Allochromatium vinosum* ferredoxin variants C57A and V13G and the homologous *Escherichia coli* ferredoxin.* *J. Biolog. Inorg. Chem.* **2009**, 14, 783-799.

6. Hadjoudis, E., Yannakopoulou, K., Chatziefthimiou, S. D., Paulidou, A., Mavridis, I. M. *Supramolecular Control of Photochromism in a  $\beta$ -Cyclodextrin/Schiff Base System*. *J. Photochem. Photobiol. A: Chem.*, **2011**, 217, 293–298.
7. Birtley, J. R., Saridakis, E., Stratikos, E., Mavridis, I. M. *Crystal Structure of Human ER Aminopeptidase 2 Reveals Atomic Basis for Distinct Roles in Antigen Processing*. *Biochemistry*, **2012**, 51, 286–295.
8. Mavridis, I. M., Yannakopoulou, K. *Anionic cyclodextrins as versatile hosts for pharmaceutical nanotechnology: Synthesis, drug delivery, enantioselectivity, contrast agents for MRI*. *Int. J. Pharm.* **2015**, 492 (1-2), 275-290.
9. Mpakali, A., Giastas, p., Deprez-Poulain, R., Papakyriakou, A., Koumantou, D., Gealageas, R., Tsoukalidou, S., Vourloumis, D., Mavridis, I.M., Stratikos, E., Saridakis, E. *Crystal Structures of ERAP2 Complexed with Inhibitors Reveal Pharmacophore Requirements for Optimizing Inhibitor Potency*. *ACS Med. Chem. Lett.*, **2017**, 8, 333–337.
10. Mavridis, I. M., Yannakopoulou, K. *Porphyrinoid-Cyclodextrin Assemblies in Biomedical Research: an Update*. *J. Med. Chem.* **2020**, 63, 7, 3391-3424.  
<https://doi.org/10.1021/acs.jmedchem.9b01069> .
11. Panagiotakis, S., Mavroidi, B., Athanasopoulos, A., Charalambidis, G., Coutsolelos, A. G., Paravatou-Petsotas, M., Pelecanou, M., Mavridis, I. M., Yannakopoulou, K. *Unsymmetrical, monocarboxyalkyl meso-arylporphyrins in the photokilling of breast cancer cells using permethyl- $\beta$ -cyclodextrin as sequestrant and cell uptake modulator*. *Carbohydrate Polymers* **2022**, 275, 118666.(on-line 21/9/2021). [doi.org/10.1016/j.carbpol.2021.118666](https://doi.org/10.1016/j.carbpol.2021.118666) .
12. S. Panagiotakis, E. Saridakis, M. Malanga, I. M. Mavridis, K. Yannakopoulou., *A self-locked  $\beta$ -cyclodextrin-rhodamine B spirolactam with photoswitching properties*. *Chem. Asian J.* **2022**, 17(2), e202101282 (on-line: 25-11-2021). <https://doi.org/10.1002/asia.202101282> .