

# Curriculum Vitae

## Manuel Soriano-García

**Date:** December 31, 2016

**Personal:** October 9, 1947; México City, México.

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### Education:

B.S. Biochemical Engineering National School of Biological Sciences, National Polytechnic Institute, Mexico City, México 1970.

Ph.D. Biophysics (R. Parthasarathy) Dept. of Biophysical Sciences, State University of Buffalo (SUNY/Buffalo) 1975.

### Professional Experience:

Research Prof. Chemistry Institute, National Autonomous University of México, México City, 04510, México. 1982 - present.

Scientific Advisor of X-ray diffraction techniques at Enterprise Center A. F. S.A. Mexico City, Federal District. August 2004 - August 2007.

Scientific Advisor of X-ray diffraction techniques to Serral S.A. de C. V. Mexico City, Federal District. October 2006 - May 2007.

Visiting Prof. Department of Chemistry, Michigan State University, East Lansing, MI, USA. August, 1988-July 1991.

Research Prof. Department of Chemistry, Autonomous Metropolitan University-Iztapalapa Unit. 1979-1982.

Scientific Advisor at Center of Development of Biotic Products (COFAA) of the National Polytechnic Institute. Mexico City, Federal District. January 1980-Dec. 1982.

Coordinator of Biology, Physics and Chemistry laboratories at Technical Middle School 91, Villa de Ayala and Cuautla, Mexico 14, DF. January 1969 - August 1971.

## **Postdoctoral Work**

Roswell Park Memorial Institute.  
Biophysics Department  
Prof. Rangachary Parthasarathy  
Buffalo, NY, USA  
August to September, 1978

Roswell Park Memorial Institute.  
Biophysics Department  
Prof. Rangachary Parthasarathy  
Buffalo, NY, USA  
August to September, 1980

## **Offices Held**

January 1994 to December 1995  
President  
Unión Mexicana de Cristalografía.

January 1994 to May 1995  
Mexican Representative  
American Crystallographic Association (ACA)

January to December, 1993.  
Méxican Regional Editor  
International Union of Crystallography

January 1992 to December 1997  
Department Head, Biostructure  
Chemistry Institute, National Autonomous University of Mexico.

January to December, 1983  
Representative of the Chemistry Institute, UNAM researchers  
National Autonomous University of Mexico.

## **Awards and Prizes:**

1. National Award in Chemistry "Manuel Andres del Rio" in the Area of Research, presented by the Chemistry Society of Mexico, September 1990.
2. National Research Scientist Level III (the highest Level you can obtain in the National System of Researchers (SNI) given by the Education Secretary of Mexico. Sept./1990 to present.

3. "Presea Lazaro Cardenas", National Polytechnic Institute. Distinguished Faculty Award. May, 1992.
4. Diploma for "The best Ph. D. Thesis in chemistry in 1991, awarded by the Chemistry Institute and Faculty of Chemistry at UNAM. April 10, 1992.
5. Honors diploma for outstanding participation in research and development 1992 National Chamber of the Pharmaceutical Industry (CANIFARMA) awards the work: Design synthesis of analogues of Nalidixic Acid. December 3, 1992.
6. National Award in Science of Cuba, Dia de la Ciencia en Cuba, January, 1994.
7. Honors diploma for outstanding participation in research and development 1992 National Chamber of the Pharmaceutical Industry (CANIFARMA) awards the work: Study of the elastase relationship of polymorphonuclear oligonucleotides in the sputum of patients with cystic fibrosis treated with DNase. January 17 1995.
8. Distinguished graduate diploma. Recognition of the relevant career professional that it has contributed to the projection of the career of biochemical engineering at the National School of Biological Sciences and the prestige of the National Polytechnic Institute. XII National Congress of Biochemical Engineering, Acapulco Gro. November 26, 1998.
9. National Award in Food Science and Technology, 1999. This award was given by Coca-Cola Mexicana and National Research Council (CONACYT). November 22, 1999.
10. Weizman award, 1999, for the best Ph. D. thesis in the area of exact and natural sciences. Title of the thesis: Physico-chemical, spectrometric and Precristallografic study of different human apoproteins and specific domains of lipid transfer proteins. Student: V. M. Bolaños-García, Prof. M. Soriano-García and Prof. Jaime Mas-Oliva.
11. Inclusion in the book "Award-winning polytechnics, 1999. The science and technology at the frontiers of knowledge". Medical sciences field. Published by National Polytechnic Institute, November, 2000.
12. Award of academic and scientific recognition by IBERDROLA Foundation, Spain to make a stay of research at Institute of Molecular Biology in Barcelona, Spain to work with Prof. Ignacio Fita. October 2000 to February 2001.
13. Award of academic and scientific recognition by the Japan Synchrotron Radiation Research Institute (JASRI) SPRING-8 Japan to make a stay of research and work with Prof. Hideaki Moriyama. Agosto 7 to November 1, 2001.
14. Diploma "International Scientist of the Year 2003" for an outstanding contribution to Protein Crystallography. International Biography Centre, England. June 10, 2003.
15. Active member of SIGMA XI. The Scientific Research Society. August 4, 2004.
16. Scientific work considered as contribution for the month of July, 2009 in the journal Nature. Structural Determinants of Gating in the TRPV1 Channel. Nature Structural and Molecular Biology. Vol.16 (7) 704-710 (2009).
17. 1st place Recognition of the in the XI National Congress of Science and Technology of food. University Theatre at University of Nuevo León,

- Monterrey NL With the interesting work entitled "Biochemical characterization study and functional properties of globulin proteins in Chia's seeds (*Salvia hispanica*)". August 31 to September 1, 2009.
18. Capital City Award in Technological Innovation, 2012, given by the Federal District Government. 2012. National Award in Technological Innovations 2012.
  19. National Award in Productivity and Entrepreneurship 2014, given by the National Institute of the Entrepreneur (INADEM) of the Ministry of Economy of Mexico. June 11, 2014
  20. National Award in Health 2014, given by the Employers Confederation of the Mexican Republic (COPARMEX). November 12, 2014

## **ADDITIONAL RECOGNITION**

7. Inclusion and certificate of recognition in the Dictionary of International Biography. International Biographical Association. Editor International Biographical Center. Cambridge. CB2 3QP, England. P. 812 (1978).
8. Inclusion and certificate of recognition in "Men of Achievement", Cambridge CB2 3QP, England. (7th Edition). P. 615 (1979).
9. Inclusion and certificate of recognition in "International Who of Who of intellectual" Vol.II. International Biographical Centre. Cambridge CB2 3QP, England. P. 925 (1979).
10. Inclusion and Diploma of distinction in Who's Who in the World Special Biographee Publication. 5th edition. Pág. 902 (1981).
11. Inclusion and Diploma of distinction in "Men and Women of Distinction". Second edition. International Biographical Centre Cambridge CB2 3QP, England. (1982).
12. Inclusion and Diploma of distinction in "The International Register of Profiles" Sixth Edition. International Biographical Centre. Cambridge CB2 3QP, England. (1982).
13. Inclusion and Diploma de Distinción in "5000 Personalities of the World for Service to his Profession" First Edition. American Biographical Institute, USA (1984).
14. Member of "Research Board of Advisors" of the American Biographical Institute, Inc. Raleigh, North Carolina, USA (1988).
15. "A COMMEMORATIVE GOLD MEDAL OF HONOR" From the American Biographical Institute, Raleigh, North Carolina, USA. Mayo de 1993.
16. Member of the Committee of Evaluation for Academic Promotion for researchers at the Indian Institute of Science, Bangalore, India. December 1997.

17. External evaluator. Member of the Committee on evaluation of the thesis for obtaining the academic degree of Doctor of Sciences (Ph. D.). University of Madras, University Centenary Building Chepauk, Chennai 600 005, India. 3 of Since 1997 until now.

#### Doctoral Students, Chemistry Institute, UNAM.

1. ANDRES HERNÁNDEZ ARANA, Ph. D. 1988.
2. ADELA RODRIGUEZ ROMERO, Ph. D. 1991.
3. VICTOR MARTIN BOLAÑOS GARCIA, Ph. D. 1997.
4. ERNESTO MALDONADO OLVERA. Ph. D. 1998.
5. NORA LILIA VASCO MENDEZ. Ph. D. 1999.
6. TERESA HERNANDEZ QUIROZ. Ph. D. 1999.
7. MARIA DEL CARMEN OLIVER SALVADOR. Ph. D. 1999.
8. MARIA EUGENIA JARAMILLO FLORES. Ph. D. 2000.
9. MARÍA DEL CARMEN RAMÍREZ MEDELES. Ph. D. 2004.
10. LINA ANDREA RIVILLAS ACEVEDO. Ph. D. 2008.
11. FEDERICO MARTÍNEZ RAMOS. Ph. D. 2010.
12. VERONICA TELLO FRANCO. Ph. D. 2013.
13. JUAN PABLO CARRILLO MONTES. Ph. D. 2014.
14. EDSON EDINHO ROBLES GÓMEZ. Ph. D. 2016.

#### Master's Students, Chemistry Institute, UNAM

1. ANDRES HERNANDEZ ARANA, M. Sc. 1982.
2. MARY URDANETA CHAPARRO, M. Sc. 1982.
3. MARIO SCHATZ LEVIN, M. Sc. 1985.
4. ALFONSO ARROYO REYNA, M. Sc. 1986.
5. ADELA RODRIGUEZ ROMERO, M. Sc. 1986.
6. ENRIQUE RUDIÑO PIÑERA, M. Sc. 1999.
7. GABRIELA JUÁREZ MARTÍNEZ, M. Sc. 1999.
8. ROSA ISELA MENDOZA SANCHEZ. M. Sc. 2005.
9. MARIBEL SÁNCHEZ RAMOS. M. Sc. 2006.
10. VERÓNICA TELLO FRANCO. M. Sc. 2007.
11. KARLA ISABEL RAMÍREZ ESPINOSA. M. Sc. 2008.
12. EDUARDO GARCÍA SÁNCHEZ. M. Sc. 2009.
13. EDSON EDINHO ROBLES GÓMEZ. M. Sc. 2011.
14. NORMA MOLINA TIZO. M. SC. 2012.
15. MIGUEL ÁNGEL OLMEDO SUÁREZ. M. Sc. 2015.
  
16. CRISTIAN FABIAN SALINAS MANZO. M. Sc. 2016.

#### Undergraduate Students, Chemistry Institute, UNAM

1. CARLOS PONCE DE LEON and MARIA ELENA GONZALEZ LOPEZ, Chemistry, 1981.
2. GABRIELA ESPINOSA SANTAMARIA, Chemistry 1983.
3. GABRIELA LÓPEZ OLVERA. Chemistry, 2004.
4. OTONIEL RAMIREZ GARCIA. Chemistry, 2005.
5. ROSA MARIA ARREOLA FLORES. Chemistry, 2005.
6. JUAN PABLO ACOSTA RIZO. Chemistry, 2005.
7. JUAN PABLO CARRILLO MONTES. Food Chemistry, 2006.
8. NORMA MOLINA TIZO. Food Chemistry, 2009.
9. ALEJANDRA VEGA CAMARENA. Chemistry, 2014.
10. ITZE BERENICE FERNÁNDEZ SALAZAR. Food Chemistry, 2015.

### Scientific Articles.

1. R. Garduño and [M. Soriano-García](#), E. Chávez, Ma. T. Cruz, L. Ma. del Castillo and M. Castañeda Agullo. "Proteinasas de Plantas Mexicanas II. Puntos Isoeléctricos y Caracterización de Formas Moleculares Múltiples en Enzimas de Bromeliáceas". *Rev. Latinoamer. Quím.*, **5**, 243-248 (1974).
2. [M. Soriano-García](#), M. T. Cruz, Y. Bustamante, L. Ma. del Castillo and M. Castañeda-Agullo, "Proteinasas de Plantas Mexicanas III. Mexicana. Preparación y Caracterización". *Rev. Latinoamer. Quím.*, **6**, 143-151 (1975).
3. [M. Soriano-García](#) and R. Parthasarathy. "Structure-Activity Relationship of Cytokinins: Crystal Structure and Conformation of 6- Furfurylaminopurine (KINETIN)". *Biochem. Biophys. Res. Commun.*, **64**, 1062-1068 (1975).
4. C. M. Weeks, D. C. Rohrer, W. L. Duax, Y. Osawa and [M. Soriano-García](#). "3- $\beta$ -hydroxy-17-oxo-5-androsten-19-al, A Steroid Pertinent to Estrogen Biosynthesis". *Acta Crystallogr.*, **B31**, 2525-2528 (1975).
5. R. Parthasarathy, [M. Soriano-García](#), and Girish B. Chheda. "Bifurcated Hydrogen Bonds and Flip-Flop Conformation in a Modified Nucleic Acid Base, gc6-Ade". *Nature*, **260**, 807-808 (1976).
6. [M. Soriano-García](#) and R. Parthasarathy, "Stereochemistry and Hydrogen Bonding of Cytokinins: 6-Furfurylaminopurine (KINETIN)". *Acta Crystallogr.*, **B33**, 2674-2677 (1977).
7. [M. Soriano-García](#) and R. Parthasarathy, "A Short Intramolecular Hydrogen Bond in the Structure of the Superacid Salt Lithium Trihydrogen Dimalonate". *J. Chem. Soc., Perkin Trans. II*. 668-670 (1978).
8. [M. Soriano-García](#), "Estructura Cristalina del Malonato de Litio". *Rev. Latinoamer. Quím.*, **II**, 104-106 (1980).

9. T. Srikrishnan, [M. Soriano-García](#) and R. Parthasarathy. "Orientation and Intramolecular Hydrogen Bonding of Nitro Groups in the Crystal of Picric Acid". *Zeitschrift fur Kristallographie* **151**, 317-323 (1980).
10. [M. Soriano-García](#) and S. Narasinga Rao, "Structures of Disodium Malonate Trihydrate,  $\text{Na}_2\text{C}_3\text{H}_2\text{O}_4 \cdot 3\text{H}_2\text{O}$ , and Dilithium Malonate,  $\text{Li}_2\text{C}_3\text{H}_2\text{O}_4$ ". *Acta Crystallogr.*, **C39**, 850-852 (1983).
11. [M. Soriano-García](#), M. Jiménez, M. González, A. Hernández, M. Schatz Levine and C. Campana "Crystal and Molecular Structure of Piquerol A: A Potent Growth-Inhibiting Factor". *Chem. Letters* 617-620 (1983).
12. L. Rodríguez Hahn, M. Jiménez, R. Saucedo, [M. Soriano-García](#), R. A. Toscano and E. Díaz, "The Photochemistry of Tetrahydro Zexbrevin". *Tetrahedron*, **39**, 3909-3918 (1983).
13. [M. Soriano-García](#) and R. Parthasarathy "An Experimental Determination of the Anomalous Dispersion  $\Delta f''$  for Sulfur". *Acta Crystallogr.*, **A40**, 482-484 (1984).
14. [M. Soriano-García](#), M. Urdaneta-Chaparro, and J. Leal-Gonzalez, "Stereochemistry and Hydrogen Bonding in Auxins: Crystal and Molecular Structure of 4-(3-Indolyl)butyric acid". *Rev. Latinoamer. Quím.*, **15**, 64-66 (1984).
15. L. Rodríguez-Hahn, M. Martínez, M. Mora, C. Rodríguez, E. Díaz, [M. Soriano-García](#) and C. Campana, "Chemical Correlation of Mortonins A, C and D Sesquiterpenoids". *Tetrahedron*. **40**, 1743-1748 (1984).
16. [M. Soriano-García](#), B. Ortiz, and R.A. Toscano. "Structure of 1-Hydroxy--5, 11,15-trimethylpentacyclo [9.5.1.02,9.04,8.012,16] heptadec-2(9)-en-3-one  $\text{C}_{20}\text{H}_{28}\text{O}_2$ ". *Acta Crystallogr.*, **C40**, 479- 481 (1984).
17. I. Rodríguez, R. Cea-Olivares, [M. Soriano-García](#), R. A. Toscano y J. Gómez-Lara, "Estructura Cristalina y Molecular de la  $\beta$ -Hidroxy-2, 2', 4, 4', 5, 5'-hexametoxichalcona". *Rev. Latinoamer. Quím.*, **15**, 14-16 (1984).
18. R. Cea-Olivares, I. Rodríguez, [M. Soriano-García](#), R. Toscano and M. Córdoba, "Synthesis and Crystal structure of 4, 4'(1,2-ethanediyldiimino) bis(1,1,1-trichloro-3-penten-2-one". *Monatshefte fur Chemie*, **115**, 485-491 (1984).
19. [M. Soriano-García](#), R. A. Toscano, G. García, M. I. Larraza and I. H. Sánchez, "Structure of Methyl 3, 3-Dimethyl-7-phenylsulfinyl-1,5-dioxaspiro [5,5]undecane-9-carboxylate,  $\text{C}_{19}\text{H}_{26}\text{O}_5\text{S}$ ". *Acta Crystallogr.*, **C40**, 887-889 (1984).
20. [M. Soriano-García](#) and R.A. Toscano, "Structure of (4 $\beta$ H,6 $\beta$ H,11 $\alpha$ H)-3 $\beta$ ,10 $\beta$ -epoxy-8 $\beta$ -isobutyryloxy-1-oxogermacr-2-en-6,12-olide (Tetrahydrozex brevin),  $\text{C}_{19}\text{H}_{26}\text{O}_6$ ; A Sesquiterpenoid Lactone". *Acta Crystallogr.*, **C40**, 1425-1427 (1984).

21. [M. Soriano-García](#), R.A. Toscano, E. Cortés and R. Martínez, "Structure and Stereochemistry of 2-Methylthio-7-(*p*-bromophenyl)-8-phenoxy-4,5-benzo-3-aza-2-nonem" . *Acta Crystallogr.*, **C40**, 1460-1462 (1984).
22. [M. Soriano-García](#), R.A. Toscano, T. Alcocer, R. Cruz, and F. García, "Structure of 4-Hydroxy-3-phenylbutanamide Monohydrate, C<sub>10</sub>H<sub>13</sub>NO<sub>2</sub>.H<sub>2</sub>O". *Acta Crystallogr.*, **C40**, 2106-2108 (1984).
23. [M. Soriano-García](#), R.A. Toscano, I. López, A. Hernández, and P. Enríquez. "Structure of (25R)-3- $\beta$ -Hydroxy-5- $\beta$ -spiro-12-one Monohydrate (Hecogenin), C<sub>27</sub>H<sub>42</sub>O<sub>4</sub>.H<sub>2</sub>O". *Acta Crystallogr.*, **C40**, 2116-2118 (1984).
24. [M. Soriano-García](#), R. Parthasarathy, B. Paul, and A.R. P. Paterson, "Structure and Conformation of 6-(4-Nitrobenzyl) thioinosine, C<sub>17</sub>H<sub>17</sub>N<sub>5</sub>O<sub>6</sub>·A Potent Inhibitor of Nucleoside Transport". *Acta Crystallogr.*, **C40**, 1897-1901 (1984).
25. [M. Soriano-García](#), Fermín Aguirre and Javier Leal González. "Crystal and Molecular Structure of Trans-hexahydro-3-hydroxy-3-methyl-2(3H)-benzo furanone". *Rev. Latinoamer. Quím.*, **16**, 33-35 (1985).
26. [M. Soriano-García](#), R.A. Toscano, G. García and F. García, "Structure of (Z)-3-Ethoxycarbonyl-4-phenyl-3-pentenoic Acid, C<sub>14</sub>H<sub>16</sub>O<sub>4</sub>" *Acta Crystallogr.*, **C41**, 1064-1066 (1985).
27. [M. Soriano-García](#), R.A. Toscano, E. Díaz and L. Rodríguez-Hahn, "Structure and Stereochemistry of Phototetrahydrozexbrevin A: A Photochemical Product of a Sesquiterpenoid Lactone". *Rev. Latinoamer. Quím.*, **16**, 112-114 (1985).
28. [M. Soriano-García](#), R. A. Toscano, J. Valdés-Martínez and J. M. Fernández-G, "Structure of Ammine {Salicylaldehyde-4-phenylthiosemicarbazonato(2-)} nickel(II), Ni{ C<sub>14</sub>H<sub>11</sub>N<sub>3</sub>OS}[NH<sub>3</sub>]" . *Acta Crystallogr.*, **C41**, 498-500 (1985).
29. [M. Soriano-García](#), J. Valdés-Martínez, R. Toscano and J. Gómez-Lara, "Structure of Bis[salicylaldehyde thiosemicarbazonato (1-)] Chromium (III). Perchlorate Trihydrate, {Cr(C<sub>8</sub>H<sub>8</sub>N<sub>3</sub>OS)<sub>2</sub>} ClO<sub>4</sub>.3H<sub>2</sub>O". *Acta Crystallogr.*, **C41**, 500-502 (1985).
30. [M. Soriano-García](#), R.A. Toscano and C. Guerrero, "Structure of 2-Acetoxy-2 $\alpha$ ,3 $\alpha$ -dihydro-4 $\alpha$ -hydroxy-3-(2-methyl-isocrotonyloxy)-(1 $\alpha$ H,5 $\alpha$ H,7 $\beta$ H)-guaia-10(14),11(13)-dien-8,12-olide". *Acta Crystallogr.*, **C41**, 538-540 (1985).



31. [M. Soriano-García](#), R. A. Toscano and G. Espinosa. "Crystal and Molecular Structure of Kinetin Picrate: A New Tautomeric Form of N(6) Substituted Purine. *J. Crystallogr. Spectrosc. Res.* **15**, 651-662 (1985).
32. L. Rodríguez-Hahn, B. Esquivel, A. Ortega, J. García, E. Díaz, J. Cárdenas, [M. Soriano-García](#), and A. Toscano. "Stereochemistry of the Photoinduced Addition of the Nucleophiles to the Enone of Decompostin". *J. Org. Chem.*, **50**, 2865-2867 (1985).
33. E. Maldonado, [M. Soriano-García](#), C. Guerrero, A. Romo de Vivar and A. Ortega "The Structures of 9-Hydroxyzinnolides and Their Rearranged Acetate". *Phytochemistry* **24**, 991-994 (1985).
34. [M. Soriano-García](#), R.A. Toscano, J. Gómez-Lara and M.E. López-Morales, "Structure of (6,13-Diacetyl-5,12-dimethyl-1,4,8,11-tetraazacyclotetradeca-4,6,11,13-tetraenato) nickel (II) 7,7,8,8-tetracyano-*p*-quinodimethane (1/1) C<sub>16</sub>H<sub>22</sub>N<sub>4</sub>O<sub>2</sub>·C<sub>12</sub>H<sub>4</sub>N<sub>4</sub>". *Acta Crystallogr.*, **C41**, 1024-1026 (1985).
35. M.E. López-Morales, J. Gómez-Lara, [M. Soriano-García](#), and R.A. Toscano, "Physical Properties, Electrical Conductivity and Crystal Structure of the DADMTANi-TCNQ Complex". *Mol. Cryst., Liq. Cryst.*, **125**, 421-427 (1985).
36. [M. Soriano-García](#) y R. A. Toscano. "Estructura Cristalina del Sesquicarbonato de Sodio (TRONA). Na<sub>2</sub>CO<sub>3</sub>·2H<sub>2</sub>O". *Rev. Soc. Mexicana de Mineralogía*, **1**, 1-9, (1985).
37. B. Esquivel, A. Méndez, A. Ortega, [M. Soriano-García](#), A. Toscano, and L. Rodríguez-Hahn, "Neo-clerodane-type Diterpenoids from *Salvia Keerlii*". *Phytochemistry* **24**, 1769-1772 (1985).
38. B. Esquivel, J. Cárdenas, A. Toscano, [M. Soriano-García](#) and L. Rodríguez-Hahn. "Structure of Salvigenolide, a Novel Diterpenoid with a Rearranged Neo-clerodane Skeleton from *Salvia Fulgens*". *Phytochemistry* **41**, 3213-3117 (1985).
39. [M. Soriano-García](#), R. A. Toscano, R. Villena-Irribé and A. Campero-Celis. "Crystal and Molecular Structure of the Superacid Salt Dirubidium Tetrahydrogen Trimalonate". *J. Crystallogr. Spectrosc. Res.*, **16**, 207-216 (1986).
40. M. Salmón, [M. Soriano-García](#), R. Toscano, J. Cárdenas, R. Miranda, F. Vargas and E. Angeles. "Verocephol, A Unique Amorphane Sesquiterpene  $\gamma$ -Lactol". *J. Org. Chem.*, **50**, 4171-4172 (1985).
41. J. M. Fernández-G, M. Rubio-Arroyo, [M. Soriano-García](#), R.A. Toscano, M. C. Pérez-César, C. Rubio-Poo, J.J. Mandoki, A. de la Peña, C. Lemini, N.

Mendoza-Patiño and F. Cruz. "Synthesis and Molecular Structure of Prolame, N-(3-Hydroxy-1,3,5(10)-estratrien-17 $\beta$ -yl)-3-hydroxypropylamine: An Amino Estrogen with Prolonged Anticoagulant and Brief Estrogenic Effects". *Steroids* **45**, 151-157 (1985).

42. C. Rubio-Poo, J J. Mandoki, N. Mendoza-Patiño, C. Lemini, A. de la Peña, F. Cruz, E. Zavala, G. Silva, J. García-M. J. M. Fernández-G, [M. Soriano-García](#) and R. Toscano. "The Anticoagulant Effect of Prolame, N-(3-Hydroxy-1, 3, 5(10)-estratrien-17 $\beta$ -yl)-3-hydroxypropylamine, A Novel Amino Estrogen". *Steroids* **45**, 159-170 (1985).

43. M. C. Pérez-César, [M. Soriano-García](#), R. Toscano and J. Gómez-Lara. "Synthesis and Characterization of Taurine Schiff base Derivatives and Their Cu(II) Complexes: Crystal and Molecular Structure of 5-NO<sub>2</sub> Salicylaldimine Ethylene Sulfonic Acid Complex of Cu (II)". *J. Crystallogr. Spectrosc. Res.*, **16**, 147-157 (1986).

44. C. Guerrero, A.L. Nava, F. Quevedo, R. A. Toscano, y [M. Soriano-García](#). "Otros Constituyentes de *Viguiera Stenoloba* y *Viguiera Pinnotilobata*". *Rev. Latinoamer. Quim.*, **16**, 126-128 (1986).

45. [M. Soriano-García](#), R.A. Toscano, E. Flores-Valverde, F. Montoya-Vega and I. López-Celis, "Structure of 2-(1,5-Dimethyl-4-hexenyl)-3-hydroxy-5-methyl-1,4-benzoquinone (Perezona), a Sesquiterpene". *Acta Crystallogr.*, **C42**, 327-329 (1986).

46. [M. Soriano-García](#), F. Walls, and R. A. Toscano, "Structure of (1S, 3R, 6R, 7S)-2, 2, 6, 10-Tetramethyl-8,11-dioxotricyclo [5.3.1.0<sup>3,7</sup>]undec-9-en-9-yl Acetate. ( $\beta$ -pipitzol Acetate)". *Acta Crystallogr.*, **C42**, 329-331, (1986).

47. [M. Soriano-García](#), J. Valdés-Martínez, R. A. Toscano, J. Gómez-Lara and M. Villalobos-Peñaloza. "Structure of 5-Methoxysalicylaldehyde 4-Phenylthiosemicarbazone-Methanol (1/1)". *Acta Crystallogr.*, **C42**, 623-625 (1986).

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## **CONFERENCES AND PRESENTATIONS**

### **Conferences:**

209 participations in courses, national and international conferences and plenary conferences.

### **Congress:**

177 participations in national and International congresss of Chemistry, Biochemistry and Crystallography.

### **Works popularizing science**

97 presentations in news papers, radio and TV.