

CURRICULUM VITAE

Dr. César Rogelio Solorio Alvarado



▪ **Personal Data:**

Date of birth: February 28, 1982

Place of Birth: La Piedad de Cavadas, Michoacán, Mexico.

Marital: Married

Languages: Spanish and English.

▪ **Dirección Personal:**

Calle Frida Kahlo 1, Colonia Cerro de San Miguel,

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1. EDUCATION

November 2011 - October 2011: Post-doctoral associate, Professor Keiji Maruoka's research group. Kyoto University. Kyoto, Japan.

October 2011: PhD in Organic Chemistry. Chemical Science and Technology Program. Rovira i Virgili University (URV), Tarragona, Tarragona, Spain. Thesis developed at the Catalan Institute for Chemical Research (ICIQ).

Supervisor: Professor Antonio M. Echavarren P.

Thesis: *Gold (I) catalyzed retro-cyclopropanation reaction and development of a trinan-based approach towards C₆₀.*

Excellent Cum Laude and European Mention in the Doctor Title.

June 2006. Master in Chemical Sciences. Faculty of Chemistry. Institutional Postgraduate in Chemistry from the University of Guanajuato.

Supervisor: Professor Eduardo Peña Cabrera

Thesis: *Synthesis of an aryl naphthoquinoid CD-D' model system of Angelmicina B.*

Lauerado of Thesis.

Legalization of title: No. 009662

Professional ID: 8066685

August 1999 - December 2003. Bachelor of Pharmaceutical Biologist Chemist. Faculty of Chemistry University of Guanajuato.

Supervisor: Professor Eduardo Peña Cabrera.

Thesis: *"6-substituted 2-hydroxy 3-alkyl 1,4-naphthoquinones. Total synthesis, electrochemical study and biological activity tests."*

Thesis laureate.

Legalization of title: No. 015284.

Professional ID: No. 4897844.

2. AWARDS AND RECOGNITION

January 2022-2025. Member of the National System of Researchers Level 2.

July 2020-2023. Preferred PRODEP profile D.

January 2018. Member of the National System of Researchers Level 1.

July 2017. PRODEP preferred profile D.

January 2015. Member of the National System of Researchers Level 1.

July 2014. Obtaining the preferred PRODEP profile D.

January 2012. Candidate for the National System of Researchers, CONACyT, Mexico.

October 2011. Excellent Cum Laude in doctoral thesis.

October 2011. European Mention in the Title of Doctor.

September 2011. Poster presentation award at the 9th edition of the Eli Lilly Research Awards for PhD students. Alcobendas, Madrid, Spain.

September 2011. State Prize for Youth Merit from the state of Michoacán, in the area of Science and Technology, category B. Morelia, Michoacán, México.

September 2010. Honorable mention in the contest for the State Prize for Youth Merit 2010 of the state of Michoacan. Science and Technology Area.

August 2008. Research Staff Training Fellow (FPI). By the Ministry of Education and Science of Spain.

October 2007. Grant from the Catalan Institute for Chemical Research (ICIQ), Tarragona, Tarragona, Spain.

January 2006. Thesis Laureate, Master's degree in Chemical Sciences.

April 2004. Thesis Laureate, Bachelor of Pharmaceutical Chemist, Biologist.

3. Teaching Experience in Bachelor's Degrees Chemist, QFB and Experimental Biology 2013-present

1. Professor of the Organic Chemistry I course (General Chemistry), University of Guanajuato, Guanajuato campus. Semester January-June 2013. 3 hours / week.
2. Professor of the Organic Chemistry III course (Heterocyclic Chemistry), University of Guanajuato, Guanajuato campus. Semester January-June 2013. 3 hours / week.
3. Professor of Laboratory of Organic Chemistry III (Heterocyclic Chemistry), University of Guanajuato, Guanajuato campus. Semester January-June 2013. 4 hours / week.
4. Preparation of the Departmental Exam of Organic Chemistry I (General Chemistry) of the common core in the Chemistry department of the Division of Natural and Exact Sciences. Semester January-June 2013.
5. Professor of the Organic Chemistry III subject (Heterocyclic Chemistry) in the July-July 2013 **summer course**. 90 hours.
6. Professor of the Organic Chemistry II course (Benzene Chemistry), University of Guanajuato, Guanajuato campus. Semester August-December 2013. 3 hours / week
7. Professor of Organic Chemistry III (Heterocyclic Chemistry), University of Guanajuato, Guanajuato campus. Semester August-December 2013. 3 hours / week.
8. Professor of Organic Chemistry Laboratory III (Heterocyclic Chemistry), University of Guanajuato, Guanajuato campus. Semester August-December 2013. 4 hours / week.
9. Professor of the Organic Chemistry II course (Benzene Chemistry) in the **winter course** December 2013-January 2014. 60 hours.
10. Professor of Organic Chemistry III (Heterocyclic Chemistry) in the **winter course** December 2013-January 2014. 60 hours.
11. Professor of Organic Chemistry III (Heterocyclic Chemistry), University of Guanajuato, Guanajuato campus. Semester January-June 2014. 3 hours / week.
12. Professor of Organic Chemistry Laboratory III (Heterocyclic Chemistry), University of Guanajuato, Guanajuato campus. Semester January-June 2014. 4 hours / week.
13. Professor of the Organic Chemistry II course (Benzene Chemistry) in the July-July 2014 **summer course**. 90 hours.
14. Professor of Organic Chemistry III (Heterocyclic Chemistry), University of Guanajuato, Guanajuato campus. Semester August-December 2014. 3 hours / week.
15. Professor of Organic Chemistry Laboratory III (Heterocyclic Chemistry), University

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- of Guanajuato, Guanajuato campus. Semester August-December 2014. 4 hours / week.
16. Professor of the Organic Chemistry IV course (Chemistry of the Carbonyl group), University of Guanajuato, Guanajuato campus. Semester August-December 2014. 3 h/w.
 17. Professor of the Organic Chemistry II course (Benzene Chemistry) in the **winter course** December 2014-January 2015. 60 hours.
 18. Professor of Organic Chemistry in the semi-annual modality preparatory course for Admission to the DCNyE Degree Program of the University of Guanajuato. August-December 2014. 5 hours / week.
 19. Professor of Organic Chemistry in the **intensive** modality preparatory course for Admission to the DCNyE Degree Program of the University of Guanajuato. August-December 2014. 5 hours / week.
 20. Professor of Organic Chemistry in the course of Admission to the Postgraduate in Chemistry at the University of Guanajuato. July 2014. 4 hours / week.
 21. Professor of Organic Chemistry III (Heterocyclic Chemistry), University of Guanajuato, Guanajuato campus. Semester January-June 2015. 3 hours / week.
 22. Professor of Organic Chemistry Laboratory IIII (Heterocyclic Chemistry), University of Guanajuato, Guanajuato campus. Semester January-June 2015. 4 hours / week.
 23. Professor of the Organic Chemistry II course (Benzene Chemistry) in the July-July 2015 **summer course**. 90 hours.
 24. Professor of the Organic Chemistry II course (Benzene Chemistry), University of Guanajuato, Guanajuato campus. Semester August-December 2015. 4 hours / week
 25. Professor of Organic Chemistry III (Heterocyclic Chemistry), University of Guanajuato, Guanajuato campus. Semester August-December 2015. 4 hours / week.
 26. Professor of the Organic Chemistry II course (Benzene Chemistry), University of Guanajuato, Guanajuato campus. Semester January-June 2016. 4 hours / week.
 27. Professor of Organic Chemistry III (Heterocyclic Chemistry), University of Guanajuato, Guanajuato campus. Semester January-June 2016. 4 hours / week.
 28. Professor of the Organic Chemistry II course (Benzene Chemistry), University of Guanajuato, Guanajuato campus. Semester August-December 2016. 4 hours / week
 29. Professor of the Organic Chemistry III subject (Heterocyclic Chemistry), University of Guanajuato, Guanajuato campus. Semester August-December 2016. 4 hours / week.
 30. Professor of the Organic Chemistry II course (Benzene Chemistry), University of Guanajuato, Guanajuato campus. Semester January-June 2017. 4 hours / week.
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31. Professor of Organic Chemistry III (Heterocyclic Chemistry), University of Guanajuato, Guanajuato campus. Semester January-June 2017. 4 hours / week
 32. Professor of the Organic Chemistry II course (Benzene Chemistry), University of Guanajuato, Guanajuato campus. Semester August-December 2017. 4 hours / week
 33. Professor of Organic Chemistry III (Heterocyclic Chemistry), University of Guanajuato, Guanajuato campus. Semester August-December 2017. 4 hours / week.
 34. Professor of the Organic Chemistry II course (Benzene Chemistry), University of Guanajuato, Guanajuato campus. Semester January-June 2018. 4 hours / week.
 35. Professor of Organic Chemistry III (Heterocyclic Chemistry), University of Guanajuato, Guanajuato campus. Semester January-June 2018. 4 hours / week
 36. Professor of the Organic Chemistry II course (Benzene Chemistry), University of Guanajuato, Guanajuato campus. Semester August-December 2018. 4 hours / week
 37. Professor of Organic Chemistry III (Heterocyclic Chemistry), University of Guanajuato, Guanajuato campus. Semester August-December 2018. 4 hours / week.
 38. Professor of Organic Chemistry III (Heterocyclic Chemistry), University of Guanajuato, Guanajuato campus. Semester January-June 2019. 4 hours / week
 39. Professor of Organic Chemistry II (Chemistry of Benzene), University of Guanajuato, Guanajuato campus. Semester August-December 2019. 4 hours / week.
 40. Professor of Organic Chemistry III (Heterocyclic Chemistry), University of Guanajuato, Guanajuato campus. Semester January-June 2020. 4 hours / week
 41. Professor of Organic Chemistry II (Chemistry of Benzene), University of Guanajuato, Guanajuato campus. Semester August-December 2020. 4 hours / week.
 42. Professor of Organic Chemistry III (Heterocyclic Chemistry), University of Guanajuato, Guanajuato campus. Semester January-June 2021. 4 hours / week
 43. Professor of Organic Chemistry II (Chemistry of Benzene), University of Guanajuato, Guanajuato campus. Semester August-December 2021. 4 hours / week.
 44. Profesor de la asignatura Química Orgánica III (Química Heterocíclica), Universidad de Guanajuato, campus Guanajuato. Enero-Junio 2021. 4 horas / semana.
 45. Professor of Organic Chemistry III (Heterocyclic Chemistry), University of Guanajuato, Guanajuato campus. Semester January-June 2022. 4 hours / week
 46. Professor of Organic Chemistry II (Chemistry of Benzene), University of Guanajuato, Guanajuato campus. Semester August-December 2022. 4 hours / week.
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4. Teaching Experience in the Postgraduate Program in Chemistry from the University of Guanajuato 2013-present

1. Professor of the subject Applications of the Selected Topics of Organometallic Chemistry. Doctorate Program. Semester August-December 2013. 4 hours/week.
 2. Professor of the subject Applications of the Selected Topics of Organometallic Chemistry. Doctorate Program. Semester August-December 2013. 4 hours/week.
 3. Professor of the subject Applications of Organometallic Chemistry in Synthesis. Master's Program. Semester January-June 2014. 4 hours/week.
 4. Professor of the subject Applications of Organometallic Chemistry in Synthesis. Doctoral Program. Semester January-June 2014. 4 hours/week.
 5. Professor of the subject Research Works. Master's Program. Semester January-June 2014. 10 hours/week
 6. Professor of the subject Selected Topics of Organic Chemistry. Doctoral Program. Semester August-December 2014. 4 hours/week.
 7. Professor of the subject Research Works MM2. Master's Program. Semester August-December 2014. 32 hours/week.
 8. Professor of the subject Research Works DD2. Doctoral Program. Semester August-December 2014. 32 hours/week.
 9. Professor of the subject Applications of Organometallic Chemistry in Synthesis. Master's Program. Semester January-June 2015. 8 hours/week.
 10. Professor of the subject Applications of Organometallic Chemistry in Synthesis. Doctoral Program. Semester January-June 2015. 8 hours/week.
 11. Professor of the subject Research Works. MM3 Master Program. Semester January-June 2015. 40 hours/week.
 12. Professor of the subject Research Works. DD3 Doctoral Program. Semester January-June 2015. 40 hours/week.
 13. Professor of the subject Advanced Topics in Chemistry. Master's Program. Semester January-June 2015. 40 hours/week.
 14. Professor of the subject Advanced Topics in Chemistry. Doctoral Program. Semester January-June 2015. 40 hours/week.
 15. Professor of the subject Advanced Topics in Chemistry (Qu-40905). Doctoral Program. Semester August-December 2015. 1 hours/week.
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16. Professor of the subject Research Works DD4. Doctoral Program. Semester August-December 2015. 40 hours/week.
 17. Professor of the subject Research Works M1. Master's Program in Chemical Sciences. Semester January-June 2016.
 18. Professor of the subject Applications of Organometallic Chemistry in Synthesis (QU-40305). Master's Program in Chemical Sciences. Semester January-June 2016.
 19. Professor of the subject Selected Topics of Organic Chemistry (QU-40309). Doctoral Program in Chemical Sciences. Semester January-June 2016.
 20. Professor of the subject Research Works DD2. Doctoral Program. Semester January-June 2016.
 21. Professor of the subject Research Works DD5. Doctoral Program. Semester January-June 2016.
 22. Professor of the subject Research Works M2. Master's Program in Chemical Sciences. August-December 2016.
 23. Professor of the subject Applications of Organometallic Chemistry in Synthesis (QU-40305). Master's Program in Chemical Sciences. Semester August-December 2016. 8 hours/week.
 24. Professor of the subject Research Works DT2. Doctoral Program. Semester August-December 2016. 40 hours/week.
 25. Professor of the subject Research Works DT5. Doctoral Program. Semester August-December 2016. 40 hours/week.
 26. Professor of the subject Research Works M3. Master's Program in Chemical Sciences. Semester January-June 2017. 20 hours / week.
 27. Professor of the subject Applications of Organometallic Chemistry in Synthesis (QU-40305). Master's Program in Chemical Sciences. Semester January-June 2017. 4 hours / week.
 28. Professor of the subject Research Works DT3. Doctoral Program. Semester January-June 2017. 20 hours / week.
 29. Professor of the subject Research Works DT6. Doctoral Program. Semester January-June 2017. 20 hours / week.
 30. Professor of the subject Selected Topics of Organic Chemistry. Doctoral Program. Semester August-December 2017. 2 hours / week.
 31. Professor of the DD2 Research Works subject. Doctoral Program. Semester August-
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- December 2017. 16 hours / week.
32. Professor of the subject Research Works DD5. Doctoral Program. Semester August-December 2017. 20 hours / week.
 33. Professor of the subject Research Works DD8. Doctoral Program. Semester August-December 2017. 20 hours / week.
 34. Professor of the subject Research Works DD3. Doctoral Program. Semester January-June 2018. 20 hours / week.
 35. Professor of the subject Research Works DD6. Doctoral Program. Semester January-June 2018. 20 hours / week.
 36. Professor of the subject Research Works DD9. Doctoral Program. Semester January-June 2018. 20 hours / week.
 37. Professor of the subject Bioactive Natural Products (QU-40307). Doctoral Program. Semester January-June 2018. 4 hours / week.
 38. Professor of the subject Research Works DD4. Doctoral Program. Semester August-December 2018. 20 hours / week.
 39. Professor of the subject Research Works DD7. Doctoral Program. Semester August-December 2018. 20 hours / week.
 40. Professor of the subject Research Works DT1. Doctoral Program. Semester August-December 2018. 20 hours / week.
 41. Professor of the subject Research Works DD5. Doctoral Program. Semester January-June 2019. 4 hours / week.
 42. Professor of the subject Research Works DD8. Doctoral Program. Semester January-June 2019. 4 hours / week.
 43. Professor of the subject Research Works DT2. Doctoral Program. Semester January-June 2019. 4 hours / week.
 44. Professor of the subject Bioactive Natural Products (NEDO05021). Doctoral Program. Semester January-June 2019. 4 hours / week.
 45. Professor of the subject Research Works DD6. Doctoral Program. Semester August-December 2019. 4 hours / week.
 46. Professor of the subject Research Works DD9. Doctoral Program. Semester August-December 2019. 4 hours / week.
 47. Professor of the subject Research Works DT9. Doctoral Program. Semester August-
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- December 2019. 4 hours / week.
48. Professor of the subject Advanced Organic Chemistry 1. Doctoral Program. Semester January-June 2020. 4 hours / week.
49. Professor of the subject Advanced Organic Chemistry 1. Master's Program. Semester January-June 2020. 4 hours / week.
50. Professor of the subject Research Works DD7. Doctoral Program. Semester January-June 2020. 4 hours / week.
51. Professor of the subject Research Works DT7. Doctoral Program. Semester January-June 2020. 4 hours / week.
52. Professor of the subject Research Works M1. Master's Program. Semester August-December 2020. 4 hours / week.
53. Professor of the subject Research Works M2. Master's Program. Semester August-December 2020. 4 hours / week.
54. Professor of the subject Research Works DD8. Doctoral Program. Semester August-December 2020. 4 hours / week.
55. Professor of the subject Research Works DT5. Doctoral Program. Semester August-December 2020. 4 hours / week.
56. Professor of the subject Research Works DT6. Doctoral Program. Semester January-June 2021. 4 hours / week.
57. Professor of the subject Advanced Organic Chemistry I. Doctoral Program. Semester January-June 2021. 4 hours / week.
58. Professor of the subject Research Works DT1. Doctoral Program. Semester January-June 2021. 4 hours / week.
59. Professor of the subject Research Works DD9. Doctoral Program. Semester January-June 2021. 4 hours / week.
60. Professor of the subject Research Works DT6. Doctoral Program. Semester January-June 2021. 4 hours / week.
61. Professor of the subject Research Works M3. Doctoral Program. Semester January-June 2021. 4 hours / week.
62. Professor of the DDT2 Research Works subject. Doctoral Program. Semester August-December 2021. 4 hours / week.
63. Professor of the DDT1 Research Works subject. Doctoral Program. Semester August-
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- December 2021. 4 hours / week.
- 64.** Professor of the DDT7 Research Works subject. Doctoral Program. Semester August-December 2021. 4 hours / week.
- 65.** Professor of the subject Advanced Organic Chemistry II. Doctoral Program. Semester August-December 2021. 4 hours / week.
- 66.** Professor of the subject Advanced Topics in Organic Chemistry. Doctoral Program. Semester January-June 2022. 4 hours / week.
- 67.** Professor of the DDT8 Research Works subject. Doctoral Program. Semester January-June 2022. 4 hours / week
- 68.** Professor of the DDT3 Research Works subject. Doctoral Program. Semester January-June 2022. 4 hours / week
- 69.** Professor of the subject Research Works DT2. Doctoral Program. Semester January-June 2022. 4 hours / week
- 70.** Professor of the subject Research Works MI. Doctoral Program. Semester January-June 2022. 4 hours / week
- 71.** Professor of the subject Advanced Organic Chemistry I. Doctoral Program. Semester January-June 2022. 4 hours / week

5. PROFESSIONAL EXPERIENCE

August 2017 – present. 40 hours full-time career A professor.

Definitive designation. University of Guanajuato, Campus Guanajuato, Natural and exact sciences division. Chemistry Department.

August 2015- August 2017. 40 hours full-time associate career A professor, Definitive designation. University of Guanajuato, Campus Guanajuato, Natural and exact sciences division. Chemistry Department.

October 2014-July 2015. 40 hours full-time associate career B professor, Definitive designation. University of Guanajuato, Campus Guanajuato, Natural and exact sciences division. Chemistry Department.

October 2014 Definitivity. 40 hours full-time associate career B professor, Definitive designation. University of Guanajuato, Campus Guanajuato, Natural and exact sciences division. Chemistry Department.

October 2012-October 2014. 40 hours full-time associate career B professor, Definitive designation. University of Guanajuato, Campus Guanajuato, Natural and exact sciences division. Chemistry Department.

June-September 2011. Research summer in organocatalysis Professor Darren, J. Dixon. Oxford University. Oxford, England.

June-August 2010. Research summer in natural product synthesis. Professor Phil S. Baran. THE SCRIPPS RESEARCH INSTITUTE. La Jolla, California, U.S.A.

June-August 2010. Research summer in kinetic study of halogenation of tryptamines. Professor Donna G. Blackmond. THE SCRIPPS RESEARCH INSTITUTE. La Jolla, California, U.S.A.

June-July 2005. Summer research in natural product synthesis. Professor Dr. K.C. Nicolaou, THE SCRIPPS RESEARCH INSTITUTE. La Jolla California, U.S.A.

2004-2006. Development and synthesis of pharmacologic active drugs. Private sector. Laboratorios Ibérica S.A. de C.V. Zapopan, Jalisco, Mexico.

2003-2004. Quality control in vegetal hormone synthesis. Private sector. Industry: INTERCONTINENTAL S.A. DE C.V. Salamanca, Guanajuato, Mexico.

2002-2004. 4.5 years of experience working on ORGANIC SYNTHESIS AND ORGANOMETALLICS WITH TOTAL SYNTHESIS APPLICATIONS. Dr. Eduardo Peña Cabrera's group.

6. PUBLICATIONS

6.1. AS AN INDEPENDENT TEACHER INDEXED IN THE JCR

CITAS: 584 (SCOPUS) iH=12

39. Novel 2-aryl-4-aryloxyquinoline-based fungistatics for *Mucor circinelloides*. Biological evaluation of activity, QSAR and docking study

Bioorg. Med. Chem. Lett., **2022**, *63*, 128649.

DOI: 10.1016/j.bmcl.2022.128649

Pradip D.Nahide, ClaraAlba-Betancourt, Rubén Chávez-Rivera, Pamela Romo-Rodríguez, Manuel Solís-Hernández, Luis A.Segura-Quezada, Karina R. Torres-Carbajal, Rocío Gámez-Montaña, Martha A. Deveze-Álvarez, Marco A. Ramírez-Morales, Angel J. Alonso-Castro, Juan R. Zapata-Morales, Alan J. Ruiz-Padilla, Claudia L. Mendoza-Macías, VictorMeza-Carmen, Carlos J. Cortés-García, Alma R. Corrales-Escobosa, Rosa E.Núñez-Anita, RafaelOrtíz-Alvarado,* LuisChacón-García,* [César R.Solorio-Alvarado*](#)

38. Gold(I)-Catalyzed Synthesis of 4*H*-Benzo[*d*][1,3]oxazines and Biological Evaluation of Activity in Breast Cancer Cells

ACS Omega, **2022**, *7*, 6944-6955

DOI: 10.1021/acsomega.1c06637

Luis A. Segura-Quezada, Karina R. Torres-Carbajal, Narendra Mali, Dipak B. Patil, Mauricio Luna-Chagolla, Rafael Ortiz-Alvarado, Melissa Tapia-Juárez, Ixamail Fraire-Soto, Jorge Gustavo Araujo-Huitrado, Angelica Judith Granados-López, Rosalinda Gutiérrez-Hernández, Claudia Araceli Reyes-Estrada, Yamilé López-Hernández, Jesús Adrián López*, Luis Chacón-García*, and [César R. Solorio-Alvarado*](#)

37. Diaryliodonium(III) salts in one-pot double functionalization of C-I^{III} and ortho C-H bonds

Org. Biomol. Chem. **2022**, *20*, 3231-3248

DOI: 10.1039/D1OB02501E

Kotaro Kikushima, Elghareeb E. Elboray, J. Oscar C. Jiménez-Halla, [César R. Solorio-Alvarado*](#) and Toshifumi Dohi*

- *Article selected as the outer cover of the 16th issue of the magazine in 2022*
- *Review article in collaboration with Professor Toshifumi Dohi from Ritsumeikan University in Japan*

36. Iodine(III) Reagents for the Oxidative Aromatic Halogenation

Org. Biomol. Chem. **2022**, *20*, 5009-5034

DOI: 10.1039/D2OB00741J

Luis A. Segura-Quezada, Karina R. Torres-Carbajal, Kevin A. Juárez Ornelas, Ángel J. Alonso-Castro, Rafael Ortíz-Alvarado,* Toshifumi Dohi* and [César R. Solorio-Alvarado.*](#)

- *Article selected as the outer cover of the 25th issue of the magazine in 2022*
- *Review article in collaboration with Professor Toshifumi Dohi from Ritsumeikan University in Japan*

35. Myristic acid reduces skin inflammation and nociception*J. Food. Biochem.*, **2022**, *46*, e14013

DOI: 10.1111/jfbc.14013

Ángel Josabad Alonso-Castro,* Roberto Serrano-Vega, Salud Pérez-Gutiérrez, Mario Alberto Isiordia-Espinoza, [César Rogelio Solorio-Alvarado](#).**34. Pharmacological activities of *Asclepias curassavica* L. (Apocynaceae) aerial parts***J. Ethopharmacol.* **2021**, *281*, 114554.

DOI: 10.1016/j.jep.2021.114554

Ángel Josabad Alonso-Castro,* Víctor Arana-Argáez, Eunice Yáñez-Barrientos, Julio Cesar Torres-Romero, Rodrigo Javier Chable-Cetz, Katarzyna Worbel, Antonio de Jesús Euan-Canto, Kazimierz Wrobel, Alan González-Ibarra, [César Rogelio Solorio-Alvarado](#), María del Carmen Juárez-Vázquez**33. Use of herbal medicine for diabetes mellitus in adults from the central–western region of Mexico***Diabetes Prim. Care*, **2021**, *15*, 1095-1099.

DOI: 10.1016/j.pcd.2021.08.010

Yeniley Ruiz-Noa, Lorena Del Rocío Ibarra-Reynoso, Alan Joel Ruiz-Padilla, Ángel Josabad Alonso-Castro, Marco Antonio Ramírez-Morales, Juan Ramón Zapata-Morales, Luis Manuel Orozco-Castellanos, [César Rogelio Solorio-Alvarado](#), Alfredo Lara-Morales**32. A one-pot six-component reaction for the synthesis of 1,5-disubstituted tetrazol-1,2,3-triazole hybrids and their cytotoxic activity against the mcf-7 cell line***Molecules*, **2021**, *26*, 6104.

DOI: 10.3390/molecules26206104

Cesia M. Aguilar-Morales, Jorge Gustavo Araujo-Huitrado, Yamilé López-Hernández, Claudia Contreras-Celedón, Alejandro Islas-Jácome, Angelica Judith Granados-López, [César R. Solorio-Alvarado](#), Jesús Adrián López, Luis Chacón-García* and Carlos J. Cortés-García***31. A Novel Pseudo-Three-Component Synthetic Strategy for the Synthesis of 1,6-Dihydroazaazulenes via Cyclization of Pyrrolyl-enones***Synlett*, **2021**, *32*, 1461-1464.

DOI: 10.1055/a-1535-6085

Josue Valentin-Escalera, Ana Karen García-Dueñas, [César Rogelio Solorio-Alvarado](#), Claudia Contreras-Celedón, Carlos Jesus Cortés-García,* Luis Chacón-García***30. Oxidative Halogenation of Arenes, Olefins and Alkynes Mediated by Iodine(III) Reagents***Mini-Reviews in Organic Chemistry*, **2021**, *18*, 159-172.

DOI: 10.2174/1570193X17999200504095803

Luis A. Segura-Quezada, Karina R. Torres-Carbajal, Yuvraj Satkar, Kevin A. Juárez Ornelas, Narendra Mali, Dipak B. Patil, Rocío Gámez-Montaña, Juan R. Zapata-Morales, Selene Lagunas-Rivera,* Rafael Ortíz-Alvarado* and [César R. Solorio-Alvarado*](#)

29. The Diaryliodonium(III) Salts Reaction with Free-Radicals Enables One-Pot Double Arylation of Naphthols

Front. Chem. **2020**, *8*, article 563470

DOI: 10.3389/fchem.2020.563470

Yuvraj Satkar, Kazimierz Wrobel, Daniel E. trujillo-González, Rafael Ortiz-Alvarado,* J. Oscar C. Jiménez-Halla,* and César R. Solorio-Alvarado*

28. Iodine(III)-catalyzed Benzylic Oxidation by Using the (PhIO)_n/Al(NO₃)₃ system

Synth. Commun. **2020**, *50*, 539-548

DOI: 10.1080/00397911.2019.1707225

Berenice Yahuaca-Juárez, Gerardo Gozález, Marco A. Ramírez-Morales, Clara Alba-Betancourt, Martha A. Deveze-Álvarez, Claudia L. Mendoza-Macías, Rafael Ortiz-Alvarado,* Kevin A. Juárez- Ornelas,* César R. Solorio-Alvarado* and Keiji Maruoka*

- International collaboration with Professor Keiji Maruoka from Kyoto University
- Publication with Kevin Juarez PhD Student under my direction

27. Central nervous system evaluation of an ethanol extract of *Bidens odorata* Cav (Asteraceae) leaves, and its antinociceptive interaction with paracetamol and naproxen

Inflammopharmacology **2020**, *28*, 749-757.

DOI: doi.org/10.1007/s10787-019-00664-8

Angel Josabad Alonso-Castro,* Juan Ramón Zapata-Morales, César R. Solorio-Alvarado, Andrea Santiago-Hernández, Luis Antonio Espinoza-Ramírez, Candy Carranza-Álvarez and Velayudham Ramadoss.

26. Discovery of New Effective *N*-Alkyl-3,4-diarylmaleimides Based-Drugs for Reversing the Bacterial Resistance to Rhodamine G in *Bacillus subtilis*

Chem. Pap. **2020**, *74*, 1429-1438

DOI: 10.1007/s00044-019-02290-z

Claudia Leticia Mendoza-Macías,* César R. Solorio-Alvarado, Ángel Josabad Alonso-Castro, Clara Alba-Betancourt and Arturo Reyes Gualito.

25. Self treatment with herbal products for weight-loss among overweight and obese subjects from central México

J. Ethnopharmacol. **2019**, *243*, 21-26.

DOI: 10.1016/j.jep.2019.01.003

Angel Josabad Alonso-Castro, Alan Joel Ruiz-Padilla, Marco Antonio Ramírez-Morales, Sara Guadalupe, Alconcer-García, Yaniley Ruíz-Noa, Lorena del Rocío Ibarra-Reinoso, César R. Solorio-Alvarado, Juan Ramón Zapata-Morales, Claudia Leticia Mendoza-Macías, Martha Alicia Deveze-Álvarez and Clara Alba Betancourt.

24. Iodine(III) / AlX₃-Mediated Electrophilic Chlorination and Bromination of Arenes. Dual Role of AlX₃ (X= Cl, Br) for (PhIO)_n Depolymerization and as the Halogen Source

Tetrahedron Lett. **2019**, *60*(23),1551-1555.

DOI:10.1016/j.tetlet.2019.05.019

Luis A. Segura-Quezada, Yuvraj Satkar, Dipak Patil, Narendra Mali, Kazimierz Wrobel, Gerardo González, Ramón Zárrega, Rafael Ortiz-Alvarado and César R. Solorio-Alvarado*

23. Iodine(III)-Mediated, Controlled Di- or Monoiodination of Phenols*J. Org. Chem.* **2019**, *84*, 4149-4164.

DOI: 10.1021/acs.joc.9b00161

Yuvraj Satkar, Luisa F. Yera-Ledesma, Narendra Mali, Dipak Patil, Pedro Navarro-Santos, Luis A. Segura-Quezada, Perla I. Ramírez-Morales and César R. Solorio-Alvarado*

- **Included in the virtual issue "Celebrating Chemistry in Latin America" published by The American Chemical Society (ACS)**
- Post with Yuvraj Satkar Graduated PhD Student under my direction

22. Iodine(III)-catalyzed Electrophilic Nitration of Phenols via Non-Brønsted Acidic NO₂⁺ Generation*Org. Lett.* **2019**, *21*(5), 1315-1319.

DOI: 10.1021/acs.orglett.8b04141

Kevin A. Juárez-Ornelas, J. Oscar C. Jiménez-Halla, Terumasa Kato, César R. Solorio-Alvarado* and Keiji Maruoka*

- **Included in the virtual issue "Celebrating Chemistry in Latin America" published by The American Chemical Society (ACS)**
- International collaboration with Professor Keiji Maruoka from Kyoto University
- Publication with Kevin Juarez PhD Student under my direction

21. Total Synthesis of the Linear and Angular 3-Methylated Regioisomers of the Marine Natural Product Kealiiquinone and Biological Evaluation of Related *Leucetta* sp Alkaloids on Human Breast Cancer*Med. Chem. Res.* **2019**, *28*(4), 473-484.

DOI: 10.1007/s00044-019-02290-z

Velayudham Ramadoss, Rocío Gámez-Montaño, Juan R. Zapata-Morales, Ángel J. Alosno-Castro and César R. Solorio-Alvarado*.

20. Gold(I)-Catalysed High-Yielding Synthesis of Indenes by Direct Csp³-H Bond Activation*Org. Biomol. Chem.* **2018**, *16*, 7330-7335.

DOI:10.1039/C8OB02056F

Pradip D. Nahide, J. Oscar C. Jiménez-Halla, Katarzyna Wrobel, César R. Solorio-Alvarado*, Rafael Ortiz-Alvarado,* and Berencice Yahuaca-Juárez .

19. Total Synthesis of Kealiiquinone: The Regio-controlled Strategy for accessing to its 1-Methyl-4-arylbenzimidazolone core*RSC Adv.* **2018**, *8*, 30761-30776.

DOI:10.1039/c8ra06676k

Velayudham Ramadoss, Ángel J. Alonso-Castro, Nimsi Campos-Xolalpa, Rafael Ortiz-Alvarado, Berencice Yahuaca-Juárez and César R. Solorio-Alvarado*.

18. Protecting-Group-Free Total Synthesis and Biological Evaluation of 3-Methylkealiiquinone and Structural Analogues.*J. Org. Chem.* **2018**, *83*(17),10627-10635.

DOI: 10.1021/acs.joc.8b01436

Velayudham Ramadoss, Ángel J. Alonso-Castro, Nimsi Campos-Xolalpa and César R. Solorio-Alvarado*.

17. Self-medication practice in pregnant women from central Mexico
Saudi Pharmaceutical Journal **2018**, *26*, 886-890.

DOI: /10.1016/j.jsps.2018.03.008

Ángel Josabad Alonso-Castro,* Alan Joel Ruiz-Padilla, Yeniley Ruiz-Noa, Clara Alba-Batancourt, Fabiola Dominguez, Lorena del Rocío Ibarra-Reynoso, Juan José Maldonado-Miranda, Candy Carranza-Álvarez, Christian Blanco-Sandate, Marco Antonio Ramírez-Morales, Juan Ramón Zapata-Morales, Martha Alicia Deveze-Álvarez, Claudia Leticia Mendoza-Macías, [César R. Solorio-Alvarado](#), Joceline Estefanía Rangel-Velazquez,

16. Practical, Mild and Efficient Electrophilic Bromination of Phenols by a New I(III)-based reagent: The PIDA-AlBr₃ System

RSC Adv. **2018**, *8*, 17806-17812.

DOI: 10.1039/C8RA02982B

Yuvraj Satkar, Velayudham Ramadoss, Pradip D. Nahide, Ernesto García Medina, Kevin A. Juárez-Ornelas, Ángel J. Alonso-Castro, Rubén Chávez-Rivera, J. Oscar. C. Jiménez-Halla* and César R. Solorio-Alvarado*.

15. In Situ Formed I(III)-Based Reagent for the Electrophilic ortho-Chlorination of Phenols and Phenol Ethers: The Use of PIFA-AlCl₃ System

Eur. J. Org. Chem. **2018**, 485-493.

DOI: 10.1002/ejoc.201701399

Pradip D. Nahide, Velayudham Ramadoss, Kevin A. Juárez-Ornelas, Yuvraj Satkar, Rafel Ortiz-Alvarado, Juan M. J. Cervera-Villanueva, Ángel J. Alonso-Castro, Juan R. Zapata-Morales, Marco A. Ramírez-Morales, Alan J. Ruiz-Padilla, Martha A. Deveze-Álvarez and César R. Solorio-Alvarado*.

14. Unprecedented and Scalable Copper (I)-Catalyzed Oxidation of the Csp²-H bond on 2-phenyl-naphthalene-1,3-diol with Atmospheric Oxygen: synthesis of 2-Hydroxy-3-phenyl-1,4-naphthoquinone via direct Csp²-O bond formation.

Acta Universitaria **2017**, *27(5)*, 62-68

DOI:10.15174/au.2017.1337

Sheila Teresita Guardado-Cruz, Rafael Ortiz-Alvarado, Claudia de León, César Rogelio Solorio-Alvarado*.

13. *The antinociceptive effects of a standardized ethanol extracts of Bidens odorata Cav (Asteracea) leaves are mediated by ATP-sensitive K⁺ channels.*

J. Ethnopharmac. **2017**, *207*, 30-33.

DOI: 10.1016/j.jep.2017.06.021

Juan Ramón Zapata-Morales^a Ángel Josabad Alonso Castro^a Fabiola Domínguez^b Candy Carranza-Álvarez^c Mario Isirdia-Espinoza^d Alejandro Hernández-Morales^c [Cesar Solorio-Alvarado^e](#).

12. *Synthesis and Biological Evaluation of new 3,4-diarylmaleimides as Enhancers (modulators) of Doxorubicin Cytotoxic Activity on Cultured Tumor Cells from a Real Breast Cancer.*

J. Mex. Chem. Soc. **2017**, *6(1)*, 41-49. DOI: 10.29356/jmcs.v6i1i1.126

Jessica R. Gutierrez-Cano, Pradip D. Nahide, Velayudham Ramadoss, Yuvraj Satkar, Rafael Ortiz-Alvarado, Clara Alba-Betancourt,* Claudia L. Mendoza-Macías,* and César R. Solorio-Alvarado*.

11. *Use of medicinal plants by health professionals in México.*

J. Ethnopharmac. **2017**, *198*, 81-86.

DOI: 10.1016/j.jep.2016.12.038

Angel Josabad Alonso-Castro,* Fabiola Domínguez, Juan José Maldonado-Mirandac, Luis Jesús Castillo-Pérezd Candy Carranza-Álvarez, Eloy Solano, Mario Alberto Isiordia-Espinoza, María del Carmen Juárez-Vázquez, Juan Ramón Zapata-Morales, Marco Antonio Argueta Fuertes, Alan Joel Ruiz-Padilla, [César Rogelio Solorio-Alvarado](#), Joceline Estefanía RangelVelázquez, Rolffy Ortiz-Andrade, Ignacio González-Sánchez, Gustavo Cruz-Jiménez, Luis Manuel Orozco-Castellanos.

10. *Mild, Rapid and efficient metal-free synthesis of 2-aryl-4-aryloxyquinolines via direct Csp²-O bond formation by using diaryliodonium salts.*

Tetrahedron Lett. **2017**, *58*, 279-284.

DOI: 10.1016/j.tetlet.2016.11.093

Pradip D. Nahide, [César R. Solorio-Alvarado](#).*

9.- *A four-step scalable formal synthesis of ningalin C.*

ARKIVOC, **2016**, *iv*, 385-394.

DOI: 10.3998/ark.5550190.p009.631

Velayudham Ramadoss, Pradip D. Nahide, Kevin A. Juárez-Ornelas, Marvin Rentería-Gómez, Rafael Ortiz-alvarado and [César R. Solorio-Alvarado](#).*

6.2. Publications of the DOCTORATE AND POSTDOCTORATE

- 8.- *Site-Selective Oxidation of Unactivated C_{sp3}-H Bonds with Hypervalent Iodine (III) Reagents.* Shin A. Moteki, Asuka, Usui, Tiexin Zhang, César R. Solorio Alvarado and Keiji Maruoka. *Angew. Chem. Int. Ed.* **2013**, 52, 13093-13096.
7. *Gold for the Generation and Control of Fluxional Barbaralyl Cations.* Paul Mcgonigal, Claudia de Leon-Solis, Yahui Wang, Anna Ohms, César R. Solorio-Alvarado and Antonio M. Echavarren. *Angew. Chem. Int. Ed.* 2012, 51, 1-5.
6. *Cyclopropanation with Gold(I) Carbenes by Retro-Buchner Reaction from Cycloheptatrienes.* César R. Solorio-Alvarado, Yahui Wang, and Antonio M. Echavarren. *J. Am. Chem. Soc.* **2011**, 133, 11952-11955. **1st Author.**
5. *Gold-Catalyzed Annulation/Fragmentation: Formation of Free Gold Carbenes by Retro-cyclopropanation.* César R. Solorio-Alvarado and Antonio M. Echavarren. *J. Am. Chem. Soc.* **2010**, 132(34), 11881-1883. **1st Author.**
4. *Evolution of Propargyl Ethers into Allylgold Cations in the Cyclization of Enynes.* Jiménez-Nuñez, E.; Raducan, M.; Lauterbach, T.; Malowi, K.; Solorio, C.R. Echavarren, A.M. *Angew. Chem, Int. Ed.* **2009**, 48(33), 6152-6155.
3. *2-Hydroxynaphthoquinones. Synthesis, electrochemical study, and biological essays of activity.* Solorio-Alvarado, C. R.*; Peña-Cabrera, E.*; García-Soto. J.; López-Godinez, J.; González, F.; J. Álvarez-Hernández, A. *ARKIVOC* **2009**, (ii), 239-257.
2. *A short synthesis of two analogues of Parvaquone.* Solorio-Alvarado, C.R.; Peña-Cabrera*, E.; *ARKIVOC* **2004**, (i), 64-70. **1st Author.**
1. *A short total synthesis of parvaquone.* Solorio-Alvarado, C. R. Rodríguez-Cendejas, C.; Peña-Cabrera, E.* *ARKIVOC* **2003**, (xi), 172-178. **1st Author.**

6.3. Published articles and its Impact Factors 2003 – 2022

PUBLICATIONS AS INDEPENDENT PROFESSOR AT UG			
Publication Reference	FI	Publication Reference	FI
38. <i>ACS Omega</i> , 2022 , 7, 6944-6955	(*) 4.132	39. <i>Bioorg. Med. Chem. Lett.</i> , 2022 , 63, 128649(*)	2.823
36. <i>Org. Biomol. Chem.</i> , 2022 , 20, 5009-504	(*) 3.876	37. <i>Org. Biomol. Chem.</i> , 2022 , 20, 3231-3248	(*) 3.876
34. <i>Prim. Care Diabetes</i> , 2021 , 15, 1095-1099	2.32	35. <i>J. Food. Biochem.</i> , 2022 , 46, e14013	3.654
32. <i>Molecules</i> , 2021 , 26, art 6104.	4.411	33. <i>J. Ethnopharmacol.</i> , 2021 , 281, art 114554	4.36
30. <i>Mini Rev. Org. Chem.</i> , 2021 , 18, 159-172.	(*) 2.02	31. <i>Synlett</i> , 2021 , 32, 1461-1464.	2.419
28. <i>Synth. Commun.</i> , 2020 , 50, 539-548	(*) 2.17	29. <i>Front. Chem.</i> , 2020 , 8, 563470.	(*) 3.994
26. <i>Chem. Pap.</i> , 2020 , 74, 1429-1438.	1.246	27. <i>Inflammopharmacology</i> , 2020 , 28, 749-757	4.60
24. <i>Tetrahedron Lett.</i> , 2019 , 60(23), 1551-1555.	(*) 2.415	25. <i>J. Ethnopharmacol.</i> , 2019 , 243, 21-26.	4.36
22. <i>Org. Lett.</i> , 2019 , 21(5), 1315-1319.	(*) 6.005	23. <i>J. Org. Chem.</i> , 2019 , 84, 4149-4164.	(*) 4.28
20. <i>Org. Biomol. Chem.</i> , 2018 , 16, 7330-7335.	(*) 3.876	21. <i>Med. Chem. Res.</i> , 2019 , 28(4), 473-484.	(*) 1.965
18. <i>J. Org. Chem.</i> , 2018 , 83(17), 10627-10635.	(*) 4.28	19. <i>RSC Adv.</i> , 2018 , 8, 30761-30776.	(*) 3.73
16. <i>RSC Adv.</i> , 2018 , 8, 17806-17812.	(*) 3.73	17. <i>Saudi Pharm. J.</i> , 2018 , 26, 886-890.	4.52
14. <i>Acta Universitaria</i> , 2017 , 27(5), 62-68.	(*) IPRC	15. <i>Eur. J. Org. Chem.</i> , 2018 , 485-493.	(*) 3.31
12. <i>J. Mex. Chem. Soc.</i> , 2017 , 61(1), 41-49.	(*) 0.78	13. <i>J. Ethnopharmacol.</i> , 2017 , 207, 30-33.	4.36
10. <i>Tetrahedron Lett.</i> , 2017 , 58, 279-284.	(*) 2.415	11. <i>J. Ethnopharm.</i> , 2017 , 198, 81-86.	4.36
DOCTORATE AND POSTDOCTORATE PUBLICATIONS			
8. <i>Angew. Chem. Int. Ed.</i> , 2013 , 52, 13093-13096.	16.823	7. <i>Angew. Chem. Int. Ed.</i> , 2012 , 51, 1-5.	16.823
6. <i>J. Am. Chem. Soc.</i> , 2011 , 133, 11952-54	(1A) 16.383	5. <i>J. Am. Chem. Soc.</i> , 2010 , 132, 11881-83	(1A) 16.383
4. <i>Angew. Chem, Int. Ed.</i> , 2009 , 48(33), 6152-55.	16.383	3. <i>ARKIVOC</i> , 2009 , (ii), 239-257.	(*) 0.57
2. <i>ARKIVOC</i> , 2004 , (i), 64-70.	(1A) 0.57	1. <i>ARKIVOC</i> , 2003 , (xi), 172-178	(1A) 0.57

(*) corresponding author 21 articles

(1A) 1st author 5 articles

IPRC Indexed in the Register of Magazines of CONACyT

6.4. Disclosure Articles

1. Halogenation of Arylphenols via Oxidation of Halogen Aluminum Salts using Hypervalent Iodine (III). Segura Quezada Luis Alberto, Solorio Alvarado César Rogelio, Mendoza Macías Claudia Leticia, Alba Betancourt Clara, Zapata Morales Juan Ramón. *Youth in Science*. 3. (2), 2017, 831-834.
2. Synthesis of Antidiabetic N-alkyl-N-Arylbisguanidine Derivatives of Metformin. Ortiz Roa Montserrat, Solorio Alvarado Cesar Rogelio, Ruiz Padilla Alan Joel. *Youth in Science*. 3. (2), 2017, 908-912.
3. Synthesis of Aromatic Amides Using Mixed Hydrotalcites CO-Fe as Catalyst. García González José de Jesús, Solorio Alvarado César Rogelio, Ramos Ramírez Esthela, Deveze Álvarez Martha Alicia, Ramírez Morales Marco Antonio. *Youth in Science*. 3. (2), 2017, 750-752.
4. Synthesis and Characterization of New Iodine (III) Cationic Reagents Using Phosphoramidate Anions. Juárez Ornelas Kevin Arturo, Peña Cabrera Eduardo, Vázquez Guevara Miguel Ángel, Juárez Ruiz Juan Manuel, Solorio Alvarado César Rogelio. *Youth in Science*. 1. (1), 2014, 98-104.
5. GLASER-HAY reaction measured by Au(I) Cationic Complexes. Claudia Barrón López, Eduardo Peña Cabrera, Miguel Ángel Vázquez Guevara, Juan Manuel Juárez Ruiz, César Rogelio Solorio Alvarado. *Youth in Science*. 1. (1), 2014, 70-76.
6. Synthesis of N-Substituted Arylmaimides. Jessica Rosario Gutierrez Cano, Cesar Rogelio Solorio Alvarado. *Youth in Science*. 1. (2), 2015, 162-166.
7. Effect of Metformin on Liver Cytoarchitecture During Obesity. Álvarez Martínez Karla Lorena, Alonso Castro Ángel Josabad, Solorio Alvarado César Rogelio, Zapata Morales Juan Ramón, Alba Betancourt Clara. *Youth in Science*. 3. (2), 2017, 797-801.
8. Activation of the C-H Bond Measured by Hypervalent Iodine (III) Reagents. Estrada Hernandez Andrea Karime, Solorio Alvarado Cesar Rogelio. *Youth in Science*. 2. (1), 2016, 239-242.
9. Dysphania ambrosioides Essential Oil Emulsion. Aguilera Márquez Janette del Rocío, Solorio Alvarado César Rogelio, Zapata Morales Juan Ramón, Ruiz Padilla Alan Joel, Ramírez Morales Marco Antonio. *Youth in Science*. 3. (2), 2017, 695-699.
10. Bacterial Model Resistant to Multiple Drugs for the Evaluation of Maleimide Derivatives with Potential Reverse Effect of Resistance. Aguilar Granados Aidee Guadalupe, Reyes Gualito Arturo, Solorio Alvarado César Rogelio, Mendoza Macías Claudia Leticia. *Youth in Science*. 2. (1), 2016, 551-555.

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11. Caracterización de la Resistencia a Rodamina 6G en *Bacillus subtilis* como Modelo Bacteriano para la Búsqueda de Nuevos Inhibidores de PGP. Villalpando Villegas Christian Daniel, Alba Betancourt Clara, Ruiz Padilla Alan Joel, Solorio Alvarado César Rogelio, Mendoza Macías Claudia Leticia. *Jóvenes en la Ciencia*. 3. (2), 2017, 566-570.
 12. Evaluation of New Molecules with Potential Inhibitory Effect on P Glycoprotein. Aguilar Granados Aidee Guadalupe, Solorio Alvarado César Rogelio, Mendoza Macías Claudia Leticia. *Youth in Science*. 2. (1), 2016, 200-204.
 13. Evaluation of a Bacterial Model Resistant to Rhodamine 6G to Search for New Inhibitors of Glycoprotein P (PGP). Reyes Gualito Arturo, Solorio Alvarado César Rogelio, Mendoza Macías Claudia Leticia. *Youth in Science*. 2. (1), 2016, 247-251.
 14. Synthesis of Antidiabetic N-alkyl-N-arylbiguanidine Derivatives of Metformin. Ortiz Roa Montserrat, Solorio Alvarado Cesar Rogelio, Ruiz Padilla Alan Joel. *Youth in Science*. 3. (2), 2017, 908-912.
 15. Total Synthesis of Natural Products with Anticancer Activity. Aguilera Marquez Janette del Rocio, Solorio Alvarado Cesar Rogelio. 2. (1), 2016, 118-121.
 16. Evaluation of the Fibrinogen Ratio and Lipid Profile for Incidence of Cardiovascular Disease. Duarte Martínez María del Rocío, Camargo Segovia Ana Laura, Ruiz Padilla Alan Joel, Solorio Alvarado César Rogelio, Deveze Álvarez Martha Alicia, Alba Betancourt Clara. *Youth in Science*. 4. (1), 2018, 344-348.
 17. Analysis of Multiple Drug Resistance in Clinical Isolates of *Pseudomonas aeruginosa* from Hospital Environments. Crespo Crespo Isaac, Carranza López Claudia Teresa, Solorio Alvarado César Rogelio, Deveze Álvarez Martha Alicia, Alba Betancourt Clara, Mendoza Macías Claudia Leticia. *Youth in Science*. 4. (1), 2018, 296-300.
 18. Causality Assessment of Adverse Drug Reactions in Patients with Diabetes Mellitus 2. Cabrera Martínez Mariana, Ruiz Padilla Alan Joel, Alfaro Ruiz Edgar Román, Ramírez Morales Marco Antonio, Solorio Alvarado César Rogelio, Orozco Castellanos Luis Manuel. *Youth in Science*. 4. (1), 2018, 1135-1140.
 19. Cubic Phase Gel with Curcumin as Antivaricose. Mara Ledesma María Fernanda, Ramírez Morales Marco Antonio, Martínez Alcaraz Edith Ruth, Zapara Morales Juan Ramón, Alonso Castro Ángel Josabad, Solorio Alvarado César Rogelio. *Youth in Science*. 4. (1), 2018, 353-357.
 20. Formulation of an Emulgel with Quercetin, with Anti-inflammatory Properties. Amaro Agundis Mayra Andrea, Ramírez Morales Marco Antonio, Martínez Alcaraz Edith Ruth, Deveze Álvarez Martha Alicia, Mendoza Macías Claudia Leticia, Alba Betancourt Clara, Alonso Castro Ángel Josabad, Zapara Morales Juan Ramón, Solorio Alvarado César Rogelio, Ruiz Padilla Alan. *Youth in Science*. 4. (1), 2018, 1146-1149.
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21. Evaluation of the Pharmacodynamic Interaction Between Naproxen and the Ethanolic Extract of *Bidens odorata*. Hernández Santiago Andrea Guadalupe, Muñoz Martínez Gloria Sarahí, Nambo Arcos Mónica Esther, Alonso Castro Ángel Josabad, Solorio Alvarado César Rogelio, Zapara Morales Juan Ramón. *Youth in Science*. 4. (1), 2018, 187-191.

7. THESIS DIRECTION AT UG

7.1. DIRECTION OF BACHELOR'S THESIS 2013-2020

1. Kevin Arturo Juárez Ornelas
Chemist Bachelor's degree
Tesis: "*Síntesis Total de Alcaloides Naturales y Química del Yodo(III) en la Síntesis de Indoles.*"
Fecha: Septiembre de 2015.
2. Claudia Barrón López.
Chemist Pharmaceutical Biologist Bachelor's degree
Tesis: "*1. Activación y funcionalización del enlace C-H bencílico catalizada por complejos catiónicos de Au(I) vía migración [1,5]-hidruro y concomitante captura del intermedio catiónico. 2 Síntesis total del thunberginol A, Estudio sintético*"
Fecha: 7-julio-2015.
3. Victor Chavero Lozano.
Experimental Biologist Bachelor's degree
Tesis: "*Una Síntesis Práctica de Sales de Piridinio Mediada por [Bis(trifluoroacetoxi)iodo]benceno (PIFA).*"
Fecha: 9-julio-2015.
4. Leticia Angélica Contreras Torres
Chemist Bachelor's degree
Tesis: "*Síntesis de Compuestos Híbridos Azetidina-Pirano con potencial actividad vasodilatadora*"
Fecha: 12 de febrero de 2016
5. Jessica Rosario Gutiérrez Cano
Chemist Bachelor's degree
Tesis: "*Síntesis y Evaluación Biológica de 3,4-diarilmaleimidias N-sustituidas como Drogas Moduladoras de la sobreexpresión de la glicoproteína P-gp en líneas celulares cancerígenas resistentes a Multidroga (MDR).*"
Fecha: 6-mayo-2016
6. Ulises Aaron Mendoza Rodríguez
Chemist Pharmaceutical Biologist Bachelor's degree
Tesis: "*Síntesis de un modelo Bencimidazolona de la kealiquinona y determinación de los valores de referencia en la fórmula roja de estudiantes en la DCNye*"
Fecha: 8 de diciembre de 2016.
7. Sheyla Teresita Guardado Cruz
Chemist Pharmaceutical Biologist Bachelor's degree

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- Tesis: *“Síntesis de Moléculas Orgánicas con Actividad Biológica. 1. Antihiperglucemiantes con núcleo bisguanidina y 2. Estudios Sintéticos hacia la preparación del núcleo nafto[2,3-d]diimidazol de la kealiquinona.*
Fecha: 20-enero-2017.
- 8.** Aidee Guadalupe Aguilar Granados
Chemist Pharmaceutical Biologist Bachelor's degree
Tesis: *“Obtención de un modelo bacteriano resistente a múltiples fármacos en Bacillus subtilis para la evaluación de derivados de maleimidias con potencial efecto reversor de la resistencia.*
Fecha: 22-mayo-2017.
- 9.** Arturo Reyes Gualito
Chemist Pharmaceutical Biologist Bachelor's degree
Tesis: *“Evaluación de la actividad antimicrobiana y/o moduladora de la resistencia a antimicrobianos de cinco nuevos derivados de bisarilmaleimida en aislados clínicos de Acinetobacter baumannii, Stenotrophomonas maltophilia y Enterococcus sp.”*
Fecha: 6-julio-2018.
- 10.** Claudia Teresa Carranza López
Chemist Pharmaceutical Biologist Bachelor's degree
Tesis: *“Efecto de derivado de N-alquilbisarilmaleimidias sobre la modulación de la resistencia a antimicrobianos en aislados clínicos de Escherichia coli, Staphylococcus aureus y Psudomona aeruginosa”.*
Fecha: 16-noviembre-2018.
- 11.** Ernesto García Medina
Chemist Bachelor's degree
Tesis: *“Procedimiento nuevo para la bromación de fenoles utilizando el sistema PIDA/AlBr₃. Uso de la isopropilciclobutendiona como sistema modelo en la funcionalización vinilloga par aintroducir grupos amino en el anillo quinoide de la kealiquinona.*
Fecha: 6 de Diciembre de 2018.
- 12.** Sarahi Monserrat García Miranda
Chemist Pharmaceutical Biologist Bachelor's degree
Tesis: *“I. Evaluación de N-alquil-bisarilmaleimidias con posible efecto antimicrobiano en microorganismos multiresistentes. II. Evaluación de la técnica de hisopado directo para cuantificar bacterias de la superficie palmar”*
Fecha: 11-diciembre-2018.
- 13.** Janette del Rocío Aguilar Márquez
Chemist Pharmaceutical Biologist Bachelor's degree
Tesis: *“Síntesis de Derivados de Afinina y Evaluación de Actividad Antifúngica”*
Fecha: 26-marzo-2019.
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14. Alberto Segura Quezada
Chemist Pharmaceutical Biologist Bachelor's degree
Tesis: "*Cloración, Bromación y Nitración de Arenos Utilizando el sistema PhIO/AlX3 [X=Cl, Br, (NO3)], Estudio computacional de la nitración.*"
Fecha: 29 de Marzo de 2019.

 15. Mónica Esther Nambo Arcos
Chemist Pharmaceutical Biologist Bachelor's degree
Tesis: "*Evaluación de la Interacción analgésica entre kaempferitina y analgésicos antiinflamatorios no esteroideos en el modelo de la formalina en ratones*"
Fecha: 17-junio-2019.

 16. Claudia Nathali Bautista Bautista
Chemist Pharmaceutical Biologist Bachelor's degree
Tesis: "*Evaluación de la Interacción analgésica entre quercitina y analgésicos antiinflamatorios no esteroideos*"
Fecha: 19 de noviembre de 2020.

 17. Daniela María Romo Ramírez
Chemist Bachelor's degree
Tesis: "*Síntesis de fluoroquinolonas derivados de ciprofloxacino como agentes terapéuticos potenciales en el tratamiento farmacológico contra las bacterias gram (+) responsables de las infecciones en vías respiratorias y desarrollo de una nueva metodología para la síntesis de indoles libres de azidas utilizando complejos catiónicos de oro(I)*"
Fecha: 25 de noviembre de 2021

 18. Jaime Gerardo Ibarra Gutiérrez
Chemist Bachelor's degree
Tesis: "*Síntesis en escalar del vasodilatador clenbuterol*"
Fecha: 21 de mayo de 2021

 19. Mauricio Luna Chagolla
Chemist Pharmaceutical Biologist Bachelor's degree
Tesis: "*Desarrollo de nuevas reacciones catalizadas por Oro(I) para la síntesis de 2,2'-biindoles, libres de azidas*"
Fecha: 2 de junio d 2022
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7.2 DIRECTION OF MAESTER THESIS 2013-2022

1. Adriana del Carmen Galván Cabrera
Master in Chemical Sciences Degree
Tesis: “*Funcionalización del Enalce C-H mediado por reactivos bisarilo de I(III): A) Estudios Sintéticos hacia la preparación de dibenzofuranos, B) Dimerización oxidativa de fenoles en ruta hacia la síntesis de la ningalina D y c) C-arilación de fenoles*”
Fecha: 24-agosto-2015.
(Distinción de Tesis Laureada)
2. Kevin Arturo Juárez Ornelas
Master in Chemical Sciences Degree
Tesis: “*Reactivos de Iodo(III) en la Síntesis de Heterociclos: 1) Oxidación Vinílica en la formación de indoles 2) Síntesis de isoquinolonas via formación del enlace Csp-N 3) Optimización del acoplamiento de Suzuki en la síntesis del fragmento arilbencimidazolona de la kealiiquinona.*”
Fecha: 22-septiembre-2017.
(Distinción de Tesis Laureada)
3. Luis Alberto Segura Quezada
Master in Chemical Sciences Degree
Tesis: “*Síntesis total de la ningalina c: desarrollo de la metodología para la obtención de su núcleo naftaleno*”
Fecha: 14 dde junio de 2021
4. Karina Rocío Torres Carbajal
Master in Chemical Sciences Degree
Tesis: “*Síntesis y evaluación biológica de antiinflamatorios no esteroideos derivados de indometacina*”
Fecha: 14 dde junio de 2021

7.3 DIRECTION OF DOCTORAL THESIS 2013-2022

1. Pradip D. Nahide
PhD degree
Tesis: *“Iodine(III) Reagents and Gold(I) catalysis for developing new organic reactions 1) Direct Csp²-O bond formation mediated by diaryliodonium salts in the synthesis of 4 aryloxyquinolines 2) Chlorination of arenes by the new PIFA/AlCl₃ system 3) Gold(I)-catalyzed direct Csp³-H bond activation in the synthesis of triarylindenes*
Fecha: 24-agosto-2018.
(Distinción de Tesis Laureada)
2. Velayudham Ramadoss.
PhD degree
Tesis: *“Regiocontrolable, Scalable, Convergent total synthesis of kealiiquinone, analogues and biological assays of activity*
Fecha: 7-septiembre-2018.
(Distinción Cum Laude)
3. Yuvraj Vithoba Satkar
PhD degree
Tesis: *“A) Iodine(III) mediated the direct C-H halogenation and arylation of naphthalenes: 1) Development of new iodine(III) reagents for the bromination and iodination of naphthols, 2) sequential Csp²-Csp²/O-Csp² bond formation via naphthol radical reactions with diaryliodonium(III) salts and B) new procedures in the preparation of 2-aryl-3-nitro-1-naphthols: Synthetic studies towards the total synthesis of Ningalin D”*
Fecha: 20 de enero de 2020
(Distinción Cum Laude)
4. Tushar Janardan Pawar
PhD degree
Título: *“New Modes of Activation for the Remote Functionalization by Organocatalysis”*
Fecha: 30 de abril de 2020
(Distinción Cum Laude)

8. PARTICIPATION AS JURY IN DEGREE EXAMS

8.1. Jury in DOCTORAL exams

- 1. Institution:** University of Guanajuato, Guanajuato campus
Student: Q. Mayra Rosario Martínez González
Project Title: Carbohidratos: a) síntesis de híbridos mono (oligo) sacáridos-BODIPY; b) Síntesis de C-arilglicósidos
Degree: PhD degree
Date: December 5, 2014.
- 2. Institution:** University of Guanajuato, Guanajuato campus
Student: Q.F.B. María de Lourdes Betancourt Mendiola
Project Title: “ Aplicaciones de los acoplamientos catalizados por metales de transición: 1. Diseño y síntesis de cationes. 2. Síntesis de Derivados de dibenzazepinas altamente funcionalizadas a partir de la ciclobutendiona”
Degree: PhD degree
Date: February 24, 2015.
- 3. Institution:** University of Guanajuato, Guanajuato campus
Student: Q. César Fernando Azael Gómez Durán
Project Title: “ Nuevas aplicaciones de los acoplamientos catalizados por metales de transición 1) Funcionalización ortogonal de compuestos fluorescentes 2) Síntesis de derivados poliaromáticos”
Degree: PhD degree
Date: February 25, 2015.
- 4. Institution:** University of Guanajuato, Guanajuato campus
Student: Q.F.B. Ángel Rentería Gómez
Project Title: “Síntesis de Heterocícllos Nitrogenados vía la estrategia RMC/Post transformación y Estudio Computacional y de Actividad Biológica ”
Degree: PhD degree
Date: May 6, 2019.

8.2. Jury in MASTERY exams

- 1. Institution:** University of Guanajuato, Guanajuato campus
Student: Q. Oscar Francisco González Belman
Project Title: The role of the metal in the dual-metal catalyzed hydrophenoxylation of alkynes ”
Degree: Maestro en Ciencias Químicas
Date: 31 de agosto de 2018.
- 2. Institution:** University of Guanajuato, Guanajuato campus
Student: Q. Leonardo Israel Lugo Fuentes
Project Title: “*A Theoretical Study of New Boron Ligands on the Activation of Small Molecules by a Diboron-Phosphine Ligand and on the Electronic Properties of BoronContaining Heterocyclic Carbene (BNC) Gold Complexes*”
Degree: Maestro en Ciencias Químicas
Date: 20 de junio de 2022.

8.3. Jury in exams of BACHELOR'S DEGREE

- 1. Institution:** University of Guanajuato, Guanajuato campus
Student: Astrid Selene Páramo Castillo
Project Title: “Efecto Neurofarmacológico de un extracto etanólico de *Senna septemtrionalis* (Viv) H.S. Irwin & Barneby (Fabacea)
Degree: Licenciado en Químico Farmacéutico Biólogo
Date: 14 de junio de 2019.

9. PARTICIPATION AS JURY IN PREDOCTORAL EXAMS

- 1. Institution:** University of Guanajuato, Guanajuato campus
Student: Q.F.B. Maria de Lourdes Betancourt Mendiola
Project Title: "Applications of couplings catalyzed by transition metals"
Date: January 29, 2013.
- 2. Institution:** University of Guanajuato, Guanajuato campus
Student: Q. Cesar Fernando Azael Gomez
Project Title: "New Applications of couplings catalyzed by transition metals"
Date: January 28, 2013.
- 3. Institution:** University of Guanajuato, Guanajuato campus
Student: Q. Ismael Arroyo Córdoba
Project Title: "Development of a new methodology for the synthesis of polycyclic **nitrogenous molecules:** 1) synthesis of fluorescent oligomers 2) total synthesis without protecting groups, convergent scalable of ningalin D and purpurone, 3) use of the Liebeskind reagent in the synthesis of polycyclic nitrogenous compounds"
Date: November 13, 2014.
- 4. Institution:** University of Guanajuato, Guanajuato campus
Student: Q. Jose Luis Belmonte Vazquez
Project Title: "Development of a New Methodology for the synthesis of Polycyclic Molecules. 1) Orthogonal reactivity in the synthesis of complex fluorophores 2) New ways of generating highly functionalized benzynes and their application in synthesis"
Date: December 4, 2014.
- 5. Institution:** University of Guanajuato, Guanajuato campus
Student: Q. Diana Estephany Ramírez Ornelas
Project Title: Synthesis of Polycyclic Molecules with diverse applications: 1) synthesis of molecules with multiple fluorophores through multicomponent reactions 2) Synthesis of highly substituted dibenzoxepins 3) Synthesis of derivatives of defucogilvocarcin M.
Date: December 8, 2014.
- 6. Institution:** University of Guanajuato, Guanajuato campus
Student: Q. Enrique Alvarado Martinez
Project Title: Development of a new methodology for the Synthesis of Polycyclic Molecules with diverse applications: 1) obtaining fluorophores with extended conjugation 2) preparation of donor-acceptor assemblies capable of generating photoinduced electron transfer (PET) 3) Development of aromatic compounds by means of fukuyama-cyclotrimerization reaction sequence [2+2+2]
Date: December 9, 2014.
- 7. Institution:** University of Guanajuato, Guanajuato campus
Student: M.C. Velayudham Ramadoss
Project Title: Scalable Regiocontrolled Total Synthesis of Kealiquinone
Date: January 8, 2015.

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- 8. Institution:** University of Guanajuato, Guanajuato campus
Student: M.C. Pradip Nahide
Project Title: 1. Total Synthesis of Graveolin and Graveolinin and structural analogs
2. Activation and functionalization of the benzylic C-H bond catalyzed by cationic Au(I) complexes via [1,5]-H migration and concomitant capture of the cationic intermediate
3. Functionalization of BODIPYs through the thiol-ene thiol-yne reaction”
Date: January 15, 2015.
 - 9. Institution:** University of Guanajuato, Guanajuato campus
Student: Q. Fernando Hernandez Borja
Project Title: 2-Pyridones: their synthesis, functionalization and biological evaluation
Date: February 13, 2015.
 - 10. Institution:** University of Guanajuato, Guanajuato campus
Student: Q. Ernesto Enriquez Palacios
Project Title: Transition metals in synthesis: 1. Applications in Fluorescence 2. Applications in the preparation of polycyclic compounds.
Date: July 2, 2015.
 - 11. Institution:** University of Guanajuato, Guanajuato campus
Student: Q. Antonio de Jesus Gomez Infante
Project Title: Application of transition metals in synthesis: 1. Applications in Fluorescence 2. Applications in the preparation of polycyclic and aromatic and non-aromatic oxygenated compounds
Date: July 7, 2015.
 - 12. Institution:** University of Guanajuato, Guanajuato campus
Student: M.S. Yuvraj Vithoba Satkar
Project Title: 1. Synthesis of dibenzo[c,g]carbazole-5-9-diones via biphenylenequinomethane intermediate
2. C-arylation of phenols and phenol ethers mediated by bisaryliodonium(III) salts via Csp²-H functionalization”
Date: November 28, 2016.
 - 13. Institution:** University of Guanajuato, Guanajuato campus
Student: Sandra Cecilia Ramírez López
Project Title: “Synthesis of Peptidomimetic Heterocycles using the RMC/Posttransformation strategy”
Date: March 1, 2019.
 - 14. Institution:** University of Guanajuato, Guanajuato campus
Student: Dipak Bathu Patil
Project Title: “1) Iodine(III)-catalyzed oxidative and direct C-H arylation of Phenols.
2) Synthesis of benzo[b]carbazols by Au(I)-Catalyzed tandem Cyclization/migration/Cyclization”
Date: June 6, 2019.
 - 15. Institution:** University of Guanajuato, Guanajuato campus
Student: Narendra Sukalal Mali
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Project Title: "1) Iodine(III)-catalyzed direct C-H amination of Phenols. 2) Synthesis of polyaromatic heterocycles pyrrole[1,2-a]indoles by Au(I)-Catalyzed tandem Cyclization/C-Activation/Cyclization"

Date: June 7, 2019.

16. Institution: Michoacán University of San Nicolás de Hidalgo

Student: Mario Valle Sanchez

Project Title: "Development of Molecular Machines from Natural Products"

Date: January 25, 2019.

17. Institution: Michoacán University of San Nicolás de Hidalgo

Student: Cesia Manuella Aguilar Morales

Project Title: "Synthesis of "fused" and "linked" Nitrogenated Heterocycles via RMC Ugi-azide/post-condensation"

Date: December 10, 2021.

18. Institution: University of Guanajuato, Guanajuato campus

Student: Edson Daniel Hernandez Velázquez

Project Title: "Organic Synthesis and Biological Evaluation of Drugs with Potential Activity against Parkinson's, Multidrug-Resistant Cancer and Diabetes"

Date: December 13, 2021.

10. POSTER PRESENTATIONS, CONFERENCES, SEMINARS AND GIVEN WORKSHOPS

LECTURES GIVEN 2013-2022

10.1. Scientific Conferences by Invitation

1. Cycle of Seminars Jacobo Gómez Lara, University of Guanajuato, Division of Natural and Exact Sciences, Department of Chemistry. Guanajuato, Guanajuato. February 28, 2013.
Title: *Catalysis With Au(I), New Perspectives in Organic Synthesis.*
 2. 48th Mexican Congress of Chemistry, 32nd National Congress of Education. Chemical Society of Mexico, A.C. Guanajuato, Guanajuato, Mexico. September 4, 2013.
Title: *Regiospecific Oxidation of Csp³-H Bonds with Hypervalent Iodine (III) Reagents.*
 3. 1st Update Symposium on Selected Topics for the QFB. Michoacán University of San Nicolás de Hidalgo. Morelia, Michoacan. November 23, 2013.
Title: *Organic Synthesis of Molecules with Anticancer Activity.*
 4. 1st Update Symposium on Selected Topics for the QFB. Michoacán University of San Nicolás de Hidalgo. Morelia, Michoacan. November 24, 2013.
Title: *Modern Synthesis of Organic Substrates via Acid Catalysis Lewis and by Direct C-H Activation. Duration 4 hours.*
 5. Postgraduate Seminar Program in Chemical Engineering. University of Guanajuato, Division of Natural and Exact Sciences. Guanajuato, Gto. February 21, 2014
Title: *Reactions Catalyzed by Au(I), Modern Strategies in Organic Synthesis.*
 6. Second Update Symposium on Selected Topics for the Pharmaceutical Chemical Biologist and his Linkage with the Productive Sector. Michoacán University of San Nicolás de Hidalgo. Morelia, Michoacan. February 27, 2014.
Title: *Synthesis and Reactivity of Hypervalent Iodine(III) Compounds.*
 7. Second Update Symposium on Selected Topics for the Pharmaceutical Chemist Biologist and his Link with the Productive Sector. Michoacán University of San Nicolás de Hidalgo. Morelia, Michoacan. February 28, 2014.
Title: Applications of Organometallic Chemistry in Drug Synthesis. Civil Hospital of La Piedad Michoacan
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- La Piedad Michoacan, Mexico. May 13, 2016
Title: ***Synthesis of Potential Drugs with Maleimide Nucleus as Possible Therapeutic Agents in the Treatment of Multidrug-Resistant Cancer***
8. Departmental Seminar Session of the Master's and Doctorate Programs in Sciences with an Orientation in Biomedical Chemistry.
Autonomous University of Nuevo Leon
Monterrey, N.L. 24-Feb-2017.
Title: Marine Sponges as a Source of Reversing Anticancer Agents in Multidrug Resistance: ***Synthesis and Biological Evaluation of Molecular Nuclei contained in Marine Natural Products.***
9. 5th Global Chemistry Congress.
London, United Kingdom. 4-September 2017.
Title: ***Efficient, Chemo- and Regioselective synthesis of 2-aryl-4-aryloxyquinolines by using diaryliodonium salts under mild conditions.***
10. World Chemical Congress and Exhibition.
Rome, Italy 6-September-2017.
Title: ***Mild, Rapid and efficient metal-free synthesis of 2-aryl-4-aryloxyquinolines via direct Csp²-O bond formation by using diaryliodonium salts.***
11. 100 years. Michoacán University of San Nicolás de Hidalgo.
Morelia, Mich. 17-Nov-2017.
Title: ***Synthesis and Biological Evaluation of New 3,4-diarylmaleimides as enhancers (Modulators) of Cytotoxic Activity of Doxorubicin in Tumor Cell Cultures from a real case of breast cancer.***
12. Department of Chemistry at the Graduate School of Sciences.
Kyoto University, Japan. 13-Nov.2018.
Title: ***Total Synthesis of Kealiquinone, Related Structural Analogues and Biological Essays of Activity in Different Cancer Cell Lines and Gold(I)-Catalyzed Synthesis of triarylindenes by a New and Direct C-H Activation Mode.***
13. XLIII Anniversary of the Chemical Biological Research Institute of the Michacan University of San Nicolás de Hidalgo.
Morelia Michoacan, June 26, 2019
Title: ***Regiocontrolled Total Synthesis of Kealiquinone. Failure, Success and Biological Activity in Breast Cancer.***
14. Seminar in the Department of Chemistry
University of Durham, England.
Durham, England. November 4, 2019.
Title: ***Diaryliodonium(III) Salts Reaction With Radicals: Double Arylation of Phenols via One-Pot Csp²- Csp²/O-Csp² Bond Formation'.***
15. "XVI Meeting of the Mexican Academy of Organic Chemistry (AMQO)".
Virtual mode. April 19 to 23, 2021.
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Plenary Lecture: Development of New Reagents and Activation Modes for Hypervalent Iodine Compounds (III).

Organized by the Mexican Academy of Organic Chemistry, A.C.

16. Heterocyclic Frontier Chemistry Workshop-Symposium: Drug Synthesis and Design
Autonomous University of Zacatecas
Zacatecas, Zacatecas, October 8, 2021
Title: ***“Rgiocontrolled Total Synthesis of Kealiquinone. Failures, successes and Biological activity in Breast Cancer”***

17. Nanotechnology Engineering Seminar
University of the Ciénega of the State of Michoacán de Hidalgo
Sahuayo, Michoacan. November 26, 2021.
Title: ***Synthesis of Triaryl Indenes as Molecular Units of Nanotechnology, Catalyzed by Gold(I) Cationic Complexes.***

10.2. Disclosure Conferences

1. Ticuítaco Cultural Collective A.C. La Piedad Michoacan, August 24, 2013
Title: *Liquid Crystals, Paradigms and Truths*
2. Eleventh Inter-institutional State Meeting of High School and Higher Level Chemistry Teachers. Michoacán University of San Nicolás de Hidalgo. Morelia, Michoacan, August 5, 2013.
Title: *Impact and Scope of the Chemistry Olympiad*
3. 1st Update Symposium on Selected Topics for the QFB. Michoacán University of San Nicolás de Hidalgo, Morelia, Michoacán. November 23, 2013.
Title: **International Mobility without CONACyT Scholarship at the end of the Bachelor's degree.**
4. Research Forum "Educational Intervention Processes". National Pedagogical University, Unit 162. Zamora, Michoacán. February 28, 2014.
Title: *Border investigations, Possibilities of Mexico and Europe.*
5. Event scheduled on the occasion of the Day of the Mol. University of Guanajuato, High School of Guanajuato. Guanajuato, Guanajuato. October 23, 2014.
Title: *Talking about Chemistry*
6. XVI University Teaching Update Meeting, Current Challenges of the University. Michoacán University of San Nicolás de Hidalgo. Morelia, Michoacan, July 2015.
Title: *Learning needs and instruments for collecting information in the detection of needs in the design of online programs in the chemical sciences.*
7. Event scheduled on the occasion of the Day of the Mol. University of Guanajuato, High School of Guanajuato. Guanajuato, Guanajuato. October 23, 2015.
Title: *Cancer in Mexico and the World, alternatives for a better life in organic synthesis.*
8. 3rd International Symposium on Linking and Application of Basic Sciences to the Productive Sector. Michoacán University of San Nicolás de Hidalgo. Morelia Michoacan, October 26, 2015
Title: *Organic Molecules with Biomedical Applications.*
9. Event scheduled on the occasion of the Day of the Mol. University of Guanajuato, High School of Guanajuato. Guanajuato, Guanajuato. October 21, 2015.
Title: *Radioactivity in Science, Benefits and Consequences.*

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10. Cycle of Talks with Avogadro, Celebration of the day of the mole 2017.
ENMS of Guanajuato.
Guanajuato, Gto. October 23, 2017.
Title: ***Green Chemistry in the Modern Age of Our Planet.***

 11. Cycle of Seminars in Commemoration of the "150 years of the periodic table"
University of Guanajuato, DCNE. Guanajuato, Gto., May 16, 2019
Title: ***Vanadium: as Mexican as chili and nopal.***

 12. Cycle of Conferences: I study chemistry, and then what? Organized by the student section of chemists of the DCNE
University of Guanajuato, DCNE. Guanajuato, Gto., October 2, 2019
Title: ***Innovation in organic synthesis applied to the discovery of new reactions and the design of potential drugs.***

 13. Weekly Radio Program: "Popular Parliament of the West"
Transmitted by: www.MLmedios.com
Guanajuato, Guanajuato, December 1, 2020
Title: ***Federal Support in Mexico for Science and Technology.***

 14. Update and Research Seminars of the Master in Pharmaceutical Sciences of the Department of Pharmacy of the DCNE
University of Guanajuato, Guanajuato, Gto., October 26, 2020
Title: ***Synthesis and Biological Evaluation of Drugs with Pharmacological Activity***

 15. Weekly Radio Program: "Popular Parliament of the West"
Transmitted by: www.MLmedios.com
Guanajuato, Guanajuato, June 16, 2021
Title: ***Failure of the Current Federal Government to 2021 in Support of Science and Mexican Scientists.***

 16. Framework of the 2nd Semester Group Tutoring Workshops
Bachelor's Degree in Biological Pharmaceutical Chemist, University of Guanajuato
Guanajuato, Guanajuato, August 23, 2021
Title: ***"The Q.F.B. with life trajectory and research in organic chemistry"***

 17. Framework of the 2nd Semester Group Tutoring Workshops
Bachelor's Degree in Biological Pharmaceutical Chemist, University of Guanajuato
Guanajuato, Guanajuato, February 26, 2021
Title: ***"The Q.F.B. as a researcher in the area of organic synthesis"***
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10.3. Presentations at Congresses Oral and Poster. 2004-2022

1. 6th Chemistry Workshop "Youth in Research" of the National Polytechnic Institute (IPN). Oral presentation. Mexico DF. November 2004.
2. 1st National Meeting of the Mexican academic of organic chemistry. Poster presentation. Tlaxcala, Mexico. December 2004.
3. 2nd "Chemist Week" of the University of Guanajuato. Guanajuato, Guanajuato. Presentation in Poster. August 2006.
4. 2nd National Meeting of the Mexican academic of organic chemistry. Poster presentation. Guanajuato, Mexico. February 2006.
5. 2nd EUCHEM Chemistry Congress. Poster presentation. Turin, Italy. Presentation of 2 Posters. September 2008. Squaric Ester-Based Synthesis of an Arylnaphthoquinoid CD-D' System of Angelmicin B. Gold and Palladium Catalysis in the Synthesis of Fullerene Fragments.
6. 16th ESOC 2009. European Symposium on Organic Chemistry. Poster presentation. Prague, Czech Republic. July 2009.
Propargyl Migrations of Ethers in Cycloisomerization of 1,6 and 1,7-Enynes.
7. International Symposia on Advancing the Chemical Sciences. Challenges in Organic Chemistry and Biology (ISACS 1). Presentation in. San Francisco California, USA July 2010.
Gold-Catalyzed Annulation/Fragmentation of 1,6-Enynes: Evidence for the formation of a Free Gold Carbene.
8. 2nd bilateral symposium on Spanish-Chinese catalysis. Poster presentation. Tarragona, Catalonia, Spain. November 2010.
Gold-Catalyzed Annulation/Fragmentation: Formation of Free Gold Carbenes by Retro-Cyclopropanation.
9. "Total Synthesis of Coridaldine, synthetic study"
Kevin Arturo Juárez Ornelas, David Cruz Curz, Miguel Ángel Vázquez Guevara, Eduardo Peña Cabrera and César Rogelio Solorio Alvarado
Poster presentation.
XII Meeting of the Mexican Academy of Organic Chemistry. Interdisciplinary Unit of Engineering Campus Guanajuato. IPN
Silao, Guanajuato, March 7-11, 2016.
10. "Advances in the total synthesis of graveoline cusparine, galipine, graveoline, eduline, reevesianine-A, and analogues thereof"
Pradip D. Nahide, David Cruz Curz, Miguel Ángel Vázquez Guevara, Eduardo Peña Cabrera and César Rogelio Solorio Alvarado

Poster presentation.

XII Meeting of the Mexican Academy of Organic Chemistry.
Interdisciplinary Unit of Engineering Campus Guanajuato. IPN
Silao, Guanajuato, March 7-11, 2016.

11. "Total Synthesis of Kealiquinone"

Kevin Arturo Juárez Ornelas, David Cruz Curz, Miguel Ángel Vázquez Guevara,
Eduardo Peña Cabrera and César Rogelio Solorio Alvarado

Poster presentation.

XII Meeting of the Mexican Academy of Organic Chemistry. Interdisciplinary Unit
of Engineering Campus Guanajuato. IPN
Silao, Guanajuato, March 7-11, 2016.

12. "Nutritional Quality of Oil from Seeds of the Rosaceae Taxonomic Family, Commercial and Native Species". Carlos Alberto Colín-Sánchez, César Rogelio Solorio-Alvarado, Víctor Meza-Carmen, Rafael Ortiz Alvarado. Oral presentation. Journals.com Academy International Research Conference.

Celaya, Guanajuato. From November 8 to 10, 2017.

13. "Evaluation of the effect of metformin on the levels of TNF-a in rabbits subjected to a diet high in fructose, fat and cholesterol". Dr. Martha Citlalli Contreras Romo, Dr. Martha Alicia Deveze Álvarez, Dr. Claudia Leticia Mendoza Macías, Dr. Marco Antonio Ramírez Morales, Dr. César Rogelio Solorio Alvarado, Dr. Clara Alba Betancourt.

Poster presentation.

XXIII State and VIII National Congress of Clinical Chemists of Guanajuato.
Organized by the Division of Natural and Exact Sciences of the University of
Guanajuato, the College of Chemists of the State of Guanajuato, A.C. and the College
of Chemists of León, A.C.

Guanajuato, Guanajuato. July 16, 2017.

14. Determination of the Lipid Composition of Commercial and Native Species of the Taxonomic Family of Rosaceae, in Mexico". Aguilera-Arana M, Pérez-Espino A, Solorio-Alvarado C, Ortiz-Alvarado R.

Poster presentation.

6th International Congress of Biology, Chemistry and Agronomy "Science and
Innovation for Health". Organized by the Autonomous University of Guadalajara
through the Deanship of Design, Science and Technology.

Zapopan, Jalisco. From September 27 to 29, 2017.

15. "Methodology for the O- and C-arylation of phenols in a step free of transition metals". Luis Alberto Segura Quezada, Yuvraj Vithoba Satkar, Cesar Rogelio Solorio Alvarado.

Poster presentation.

XIII Meeting of the Mexican Academy of Organic Chemistry. Organized by the
Mexican Academy of Organic Chemistry.

Villahermosa tabasco. From April 3 to 7, 2017.

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16. "Koser's Reagent-Mediated Indole Synthesis". Kevin Arturo Juarez Ornelas, Cesar Rogelio Solorio Alvarado.
Poster presentation.
XIII Meeting of the Mexican Academy of Organic Chemistry. Organized by the Mexican Academy of Organic Chemistry.
Villahermosa tabasco. April 06, 2017.
17. "Hypoglycemic derivatives with a bisguanidine nucleus". Montserrat Ortiz Roa, Sheila Teresita Guardado Cruz, Cesar Rogelio Solorio Alvarado.
Poster presentation.
XIII Meeting of the Mexican Academy of Organic Chemistry. Organized by the Mexican Academy of Organic Chemistry.
Villahermosa tabasco. April 06, 2017.
18. "Synthesis and biological evaluation of 2-aryl-4-aryloxyquinolines as fungicides". José de Jesús García González, Pradip D. Nahide, César Rogelio Solorio Alvarado.
Poster presentation.
XIII Meeting of the Mexican Academy of Organic Chemistry. Organized by the Mexican Academy of Organic Chemistry.
Villahermosa tabasco. April 06, 2017.
19. "Total synthesis of analogue of kealiquinone". Velayudham Ramadoss, Cesar Rogelio Solorio Alvarado.
Poster presentation.
XIII Meeting of the Mexican Academy of Organic Chemistry. Organized by the Mexican Academy of Organic Chemistry.
Villahermosa tabasco. April 06, 2017.
20. "Establishment of Protocols for the Incidence of Thrombosis". Nancy Celene González Vargas, Víctor Manuel Gamiño Tostado, Clara Alba Betancourt, César Rogelio Solorio Alvarado, Edith Ruth Martínez Alcaraz, Silvia Alejandra López Juárez.
Poster presentation.
LI National Congress of Pharmaceutical Sciences. Organized by the Mexican Pharmaceutical Association A.C.
Puerto Vallarta, Jalisco. September 2018.
21. "Evaluation of new molecules with potential inhibitory effect on P-glycoprotein analogues using a bacterial model in *Bacillus subtilis* resistant to rhodamine 6G". Aguilar Granados Aidee Guadalupe, Deveze-Álvarez Martha Alicia, Solorio Alvarado César Rogelio, Padilla Vaca Luis Felipe, Mendoza Macías Claudia Leticia.
22. **Poster presentation.**
XVIII International Meeting of Medical Sciences.
Leon, Guanajuato. From April 18 to 20, 2018.
23. "Sludge (III)/AIX3 (X = Cl, Br)-mediated electrophilic chlorination and bromination. Double function of aluminum salts: depolymerization of (PhIO)_n and halogen source". Luis Alberto Segura-Quezada, Yuvraj Satkar, Dipak Patil, Narendra Mali,
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Kazimierz Wrobel, Gerardo González, Ramón Zárraga, Rafael Ortiz-Alvarado, César Rogelio Solorio Alvarado.

Oral presentation.

6th Annual Student Meeting: Research and Innovation at the DCNE. Organized by the University of Guanajuato.
Guanajuato, Guanajuato on October 25, 2019.

24. "Iodine(III)-Mediated, Controlled Di-or Monoiodination of Phenols". Dipak Patil, Cesar Rogelio Solorio Alvarado.

Poster presentation.

5th National Innovation Congress. Organized by the University of Guanajuato.
Guanajuato, Guanajuato. October 25, 2019.

25. "Nitration of phenols mediated by I(III) reagents". Kevin Arturo Juárez Ornelas, César Rogelio Solorio Alvarado, José Oscar Carlos Jiménez Halla.

Poster presentation.

5th National Innovation Congress. Organized by the University of Guanajuato.
Guanajuato, Guanajuato. October 25, 2019.

26. "Analysis and assurance of water quality in the production of C. ANNUM VAR. DARSENA, in protected crops". Lucia M. Nava Barrios, Cesar Rogelio Solorio-Alvarado, Rafael Ortiz-Alvarado.

Oral presentation.

14th State Congress of Science, Technology and Innovation and the 8th Meeting of Young Researchers of the State of Michoacán. Organized by the Institute of Science, Technology and Innovation, with the collaboration of the Universidad Vasco de Quiroga. Morelia, Michoacan. October 30, 2019.

27. "The Scope of the NH_4X Salt in the $\text{PhIO}/\text{NH}_4\text{X}$ -Mediated Chlorination and Bromination of phenols"

Oral presentation.

6th Annual Student Meeting: Research and Innovation at the DCNE. Organized by the University of Guanajuato. Guanajuato, Guanajuato. October 25, 2019.

28. "Evaluation of the relation of fibrinogen and lipid profile for cardiovascular risk". Maria del Rocio Duarte Martinez, QFB. Ana Laura Camargo Segovia, Dr. Martha Alicia Deveze Álvarez, Dr. Claudia Leticia Mendoza Macías, Dr. César Rogelio Solorio Alvarado, Dr. Clara Alba Betancourt.

Poster presentation. XIX.

International Meeting of Medical Sciences.
Leon, Guanajuato. From April 10 to 12, 2019.

29. "Computational study of the reaction mechanisms of 2-naphthol halogen aircraft with PIFA-AICl₃ and PIDA-AIBr₃" Kevin A. Juárez-Ornelas, José Eduardo Baez-García, J. Oscar Carlos Jiménez-Halla, César Rogelio Solorio Alvarado.

LatinXChem.

Twitter Conference 2020. Sept 7th 2020.

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30. "Starting Computational Study of the Chlorination Mechanism Reaction of 2-Naphtol with PIDA and AlCl₃ via PhICl₂ Formation as a Chlorinating Reagent". Kevin Arturo Juárez-Ornelas, José E. Báez, César Rogelio Solorio-Alvarado, J. Oscar C. Jiménez-Halla. 24th International Electronic Conference on Synthetic Organic Chemistry (ECSOC-24). Held from 15th November to 15th December 2020. In <http://www.sciforum.net/conference/ecsoc-24>.
 31. "Synthesis of polyaromatic heterocycles pyrrolo [1,2-a] indoles by Gold(I)-Catalyzed tandem Cyclization /C-H Activator/Cyclization". Narendra Sukalal Mali, Cesar Rogelio Solorio Alvarado. 24th International Electronic Conference on Synthetic Organic Chemistry (ECSOC-24). Held from 15th November to 15th December 2020. In <http://www.sciforum.net/conference/ecsoc-24>.
 32. "Synthesis of Benzo [B]Carbazols by Tandem Au(I)- Catalyzed Cyclization/Migration/Cyclization". Dipak Bhatu Patil, María del Rocío Gámez Montano, César Rogelio Solorio Alvarado. 24th International Electronic Conference on Synthetic Organic Chemistry (ECSOC-24). Held from 15th November to 15th December 2020. In <http://www.sciforum.net/conference/ecsoc-24>.
 33. "Susceptibility profile of clinical isolates of Acinetobacter baumannii, Stenotrophomonas maltophilia and Enterococcus sp". Marisol Diosdado Rivera, Q.F.B. Arturo Reyes Gualito, Dr. Martha Alicia Deveze Álvarez, Dr. César Rogelio Solorio Alvarado, Dr. Claudia Leticia Mendoza Macias. XX International Meeting of Medical Sciences **held virtually**. Organized by the University of Guanajuato. Guanajuato, Guanajuato. From October 14 to 16, 2020.
 34. "Intracellular accumulation and resistance to R6G in Bacillus subtilis for the search of PGP inhibitors". Mendoza-Macías Claudia Leticia, Villalpando Villegas Christian Daniel, Solorio Alvarado César Rogelio, Franco Bárcenas Bernardo, Alonso Castro Ángel Josabad, Deveze Álvarez Martha Alicia. XX International Meeting of Medical Sciences **held virtually**. Organized by the University of Guanajuato. Guanajuato, Guanajuato. From October 14 to 16, 2020.
 35. "Determination of the analgesic action between quercetin and ibuprofen". Juan Ramón Zapata Morales, Silvia Mariela González Rodríguez, Eduardo Méndez Pérez, Claudia Nathalí Bautista, Bautista, Marco Antonio Ramírez Morales and Solorio Alvarado César Rogelio. XX International Meeting of Medical Sciences **held virtually**. Organized by the University of Guanajuato. Guanajuato, Guanajuato. From October 14 to 16, 2020.
 36. "Iodine(III) Mediated Electrophilic Chlorination and Bromination". Luis Alberto Segura Quezada, Cesar Rogelio Solorio Alvarado. XVI Meeting of the Mexican Academy of Organic Chemistry. Organized by the Mexican Academy of Organic Chemistry **held virtually** April 19 to 23, 2021.
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37. "Iodine(III)-mediates the controlled Mono or Diiodination of Phenols".
Karina R. Torres Carbajal, Clara Alba Betancourt, Juan Ramón Zapata Morales, César Rogelio Solorio Alvarado.
XVI Meeting of the Mexican Academy of Organic Chemistry. Organized by the Mexican Academy of Organic Chemistry **held virtually**
April 19 to 23, 2021.
38. "Benzylic Oxidation Catalyzed by Iodine(III)".
Kevin Arturo Juárez Ornelas, Alan Joel Ruiz Padilla, Martha Alicia Debeze Álvarez, César Rogelio Solorio Alvarado, Keiji Maruoka
XVI Meeting of the Mexican Academy of Organic Chemistry. Organized by the Mexican Academy of Organic Chemistry **held virtually**
April 19 to 23, 2021.
39. "Synthesis of Analogs Derived from Tyrphostin AG 17, with Potential Anticancer and Antitumor Activity".
Mauricio Luna Chagolla, Ana Sarahi Durán Martínez, Marcelo González Razo, César Rogelio Solorio Alvarado
XVI Meeting of the Mexican Academy of Organic Chemistry. Organized by the Mexican Academy of Organic Chemistry **held virtually**
April 19 to 23, 2021.
40. "Synthesis of polyaromatic heterocycles pyrrolo[1,2-a]indoles by Au(I)-catalyzed tandem cyclization C-H activation/cyclization".
Narendra Sukalal Mali, Claudia Leticia Mendoza Macías, Rafael Ortiz Alvarado, Cesar Rogelio Solorio Alvarado
XVI Meeting of the Mexican Academy of Organic Chemistry. Organized by the Mexican Academy of Organic Chemistry **held virtually**
April 19 to 23, 2021.
41. "Synthetic Development to Obtain Diinoanilines by Iterative Alkynylations of Sonogashira".
Ana Sarahi Duran Martinez, Narendra Sukalal Mali, Cesar Rogelio Solorio Alvarado
XVI Meeting of the Mexican Academy of Organic Chemistry. Organized by the Mexican Academy of Organic Chemistry **held virtually**
April 19 to 23, 2021.
42. "Total Synthesis of the Linear and Angular 3-methylated regioisomers of the marine natural product Kealiiquinone and biological evaluation of related *Leucetta sp.* alkaloids on human breast cancer".
Dipak Bathu Patil, César Rogelio Solorio Alvarado, Velayudham Ramadoss and Angel J. Alonso Castro
VII Symposium "Current Trends in the search and development of Drugs"
National Autonomous University of Mexico.
Faculty of Chemistry. College of Pharmaceutical Chemistry.
Mexico City, June 30 and July 1, 2021.
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43. “Electrophilic Chlorination and Bromination mediated by Iodine (III) AlX_3 (X=Cl,Br)”
Luis Alberto Segura Quezada, Cesar Rogelio Soloio Alvarado.
Heterocyclic Frontier Chemistry Workshop-Symposium: Drug Synthesis and Design
Poster Presentation
University of Zacatecas, Zacatecas October 8, 2021.
44. “Iodine(III)-mediated, controlled di- or monoiodination of phenols”
Dipak Bathu Patil, Cesar Rogelio Soloio Alvarado.
Heterocyclic Frontier Chemistry Workshop-Symposium: Drug Synthesis and Design
Poster Presentation
University of Zacatecas, Zacatecas October 8, 2021.
45. “Organic Synthesis and Biological Evaluation of Metformin Derivatives With Activity Potential in Diabetes Type 2 Prevention”
Edson Daniel Hernandez Velazquez, Cesar Rogelio Soloio Alvarado.
Heterocyclic Frontier Chemistry Workshop-Symposium: Drug Synthesis and Design
Poster Presentation
University of Zacatecas, Zacatecas October 8, 2021.
46. “Synthesis and Biological Evaluation of Indomethacin- Derived Non-Steroid Anti-Inflammatory”
Karina Rocío Torres Carbajal, César Rogelio Soloio Alvarado.
Heterocyclic Frontier Chemistry Workshop-Symposium: Drug Synthesis and Design
Poster Presentation
University of Zacatecas, Zacatecas October 8, 2021.
47. “Iodine(III)-catalyzed Electrophilic Nitration of Phenols via Non-Brønsted Acidic NO_2^+ Generation”
Mauicio Luna Chagolla, Cesar Rogelio Soloio Alvarado.
Heterocyclic Frontier Chemistry Workshop-Symposium: Drug Synthesis and Design
Poster Presentation
University of Zacatecas, Zacatecas October 8, 2021.
48. “Comparative Study of Experimental and Theoretical Calculation on Synthesis of Substituted Indole by Gold(I)-Catalyst and DFT-STUDY based on wb97xd/3-21g* Level for Fukui-Function and Chemical Shift of 1H , ^{13}C NMR-Calculations”. Dipak B. Patil, J. Oscar C. Jiménez-Halla, María del Rocío Gámez Montaña, Marco Antonio Ramírez Morales, Claudia Leticia Mendoza Macías and César Rogelio Solorio-Alvarado. 25th International Electronic Conference on Synthetic Organic Chemistry (ECSOC-24). Held from 15th November to 30th November 2021. In <https://ecsoc-25.sciforum.net>.
49. “Effect of Maleimide Derivatives on Antibiotic Resistance in Clinical Isolates of *Pseudomonas aeruginosa*”. Isaac Crespo Crespo, Clara Alba Betancourt, Martha Alicia Deveze Álvarez, Dr. César Rogelio Solorio Alvarado
Poster Presentation
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International Meeting of Medical Sciences.
Leon, Guanajuato. From September 8 to 10, 2021.

11. Updated Courses

1. Monocrystal X-Ray Course. Held from December 10 to 14, 2012. With a duration of 20 hours. In the City of Guanajuato, Gto. Organized by the academic bodies of Organic Synthesis and Chemistry Applied to Catalysis and Biological Systems.
2. Seminar on HPLC and LC-MS. Made on April 25, 2013. With a duration of 8 hours. In the city of Leon Guanajuato. Organized by ISASA (Instrumentation and Analytical Services SA de CV).
3. Basic Patent Course. Held on April 5, 12, 19 and 26, 2013 With a duration of 8 hours. Made in the City of Zapopan Jalisco. By the Mexican Institute of Industrial Property.
4. Technology Transfer and Rights Licensing. Held on May 20, 2013. With a duration of 4 hours. Organized by the Mexican Institute of Industrial Property.
5. Conference on the Culture of Intellectual Protection. Held from May 7 to 9, 2013. In the City of Guanajuato Capital. Organized by the UG Linking Directorate and the Mexican Institute of Industrial Property.
6. Seminar on sample preparation and elemental analysis. Made on May 21, 2013. With a duration of 8 hours. In the city of Leon Guanajuato. Organized by ISASA (Instrumentation and Analytical Services SA de CV).
7. Population Pharmacokinetic Analysis. Held from May 31 to June 2, 2017. Guanajuato, Gto. With a duration of 30 hours. Organized by the University of Guanajuato.
8. Induction course to the multimodal system for administrative staff. December 4, 2020. Guanajuato, Gto. Organized by the Educational Multimodal University System belonging to the University of Guanajuato.
9. Course Induction to the multimodal system. December 1, 2020. Guanajuato, Gto. Organized by the Educational Multimodal University System belonging to the University of Guanajuato.
10. Course My digital classroom for teachers and professors UG. Guanajuato, Gto. With a duration of 25 hours. Organized by the Educational Multimodal University System belonging to the University of Guanajuato.
11. Nuclear magnetic resonance. Held from August 10 to 14, 2020. Cuernavaca, Mor. With a duration of 20 hours. Organized by the Mexican Academy of Organic Chemistry, A.C.

12. Cycle of Conferences of the V NMR Symposium. Held from October 26 to 31, 2020. In virtual mode. Organized by the Universidad Michoacana de San Nicolás de Hidalgo and the Universidad de Guadalajara.
13. Industrial Synthesis of APIs (Active Pharmaceutical Ingredients). Held from July 27 to 31, 2020. Cuernavaca, Mor. With a duration of 10 hours. Organized by the Mexican Academy of Organic Chemistry, A.C.
14. Course "Tutorial Action Plan" within the framework of the Institutional Tutoring Program. Institutional Teacher Training Program. Held from March 1 to 3, 2021. With a duration of 10 hours. Organized by the UADE of the University of Guanajuato.
15. Heterocyclic Frontier Chemistry Workshop-Symposium "Drug Synthesis and Design". Held from October 4 to 8, 2021 with a duration of 120 hours. Organized by the Autonomous University of Zacatecas, the Michoacán University of San Nicolás de Hidalgo and the University of Guanajuato.

12. Member of Committees

1. Member of the Editorial Committee of the work Research and Innovation in the DCNE (ISBN 978-607-441-562-9) 2015.
2. Member of the Editorial Committee of the work Science, Innovation and Entrepreneurship at DCNE (ISBN 978-607-441-561-2) 2016.
3. Member of the Editorial Committee of the work Multidisciplinarity in Scientific Research of the DCNE (ISBN 978-607-441-560-5) 2017.
4. Member of the Editorial Committee of the work Student Participation in the Development of Scientific Research of the DCNE (ISBN in process) 2018.
5. Member of the Editorial Committee and Reviewer of the Electronic Magazine Nature and Technology of the Division of Natural and Exact Sciences, of the University of Guanajuato. January-December 2018.
6. Member of the Editorial Committee of the work Research and Innovation in the DCNE: strengthening of the scientific vocation and entrepreneurship (ISBN in process) 2019.
7. Full Member of the DCNE Scholarship Committee of the Guanajuato Campus of the University of Guanajuato, 2019.
8. Member of the Nuclear Magnetic Resonance Committee of the DCNE of the University of Guanajuato, 2019.
9. Member of the Editorial Committee of the work Academic Training at the DCNE through Scientific Research, Innovation and Entrepreneurship (ISBN pending) 2020.
10. Full Member of the DCNE Scholarship Committee of the Guanajuato Campus of the University of Guanajuato, 2020.
11. Member of the Nuclear Magnetic Resonance Committee of the DCNE of the University of Guanajuato, January-November 2020.
12. Member of the Academic Committee of the Master in Pharmaceutical Sciences. DCNE of the Guanajuato Campus of the University of Guanajuato, January-December 2020.
13. Member of the Basic Academic Nucleus of the Doctoral Program in Chemical Sciences (PNPC, International Competition Level), of the Division of Natural and Exact Sciences of the University of Guanajuato, during the period January - December 2020.

14. Member of the Basic Academic Nucleus of the Master's Program in Chemical Sciences (PNPC, International Competition Level), of the Division of Natural and Exact Sciences of the University of Guanajuato, during the period January - December 2020.
15. Member of the Editorial Committee and Reviewer of the Electronic Magazine Nature and Technology of the Division of Natural and Exact Sciences, of the University of Guanajuato. Responsible for the Edition and Publication of the 3 quarterly issues corresponding to the year 2020.
16. Member of the Organizing Committee of the Fifth Week of Innovation, Entrepreneurship and Research in the Division of Natural and Exact Sciences 2020 of the University of Guanajuato.
17. Member of the Organizing Committee of the Heterocyclic Frontier Chemistry Workshop-Symposium "Drug Synthesis and Design" held from October 4 to 8, 2021.
18. Member of the Organizing Committee of the Sixth Week of Innovation, Entrepreneurship and Research in the Division of Natural and Exact Sciences 2020 of the University of Guanajuato.
19. Full Member of the DCNE Scholarship Committee of the Guanajuato Campus of the University of Guanajuato, 2021.
20. Member of the Academic Committee of the Master in Pharmaceutical Sciences. DCNE of the Guanajuato Campus of the University of Guanajuato, January-December 2021.
21. Member of the Nuclear Magnetic Resonance Committee of the DCNE of the University of Guanajuato, January-November 2021.
22. Member of the Committee for the Evaluation and Curriculum Redesign of the 2014 Study Plan of the Degree in Pharmaceutical Chemist Biologist of the DCNE, University of Guanajuato. July 2022.

13. Referee of International Articles

	Article Title	Journal	Year
1	Synthesis of 5Aryl3(2H)furanones Using Intramolecular Cyclization of Sulfonium Salts	The Journal of Organic Chemistry (FI=4.335)	2018
2	Copper-Catalyzed Diphenylation of P(O)-OH Compounds with Cyclic Diaryliodonium salts	The Journal of Organic Chemistry (FI=4.335)	2019
3	An efficient phosphorus-free chlorination of hydroxy azarenes and its application in one-pot pharmaceutical synthesis	Organic Process Research and Development (FI=3.023)	2019
4	Fluorophenols bearing nitric heterocycle moieties, a class of novel Keap1Nrf2 protein-protein interaction inhibitors: synthesis, antioxidant stress screening and molecular docking	Medicinal Chemistry Research (FI=1.7839)	2019
5	Nitrenium ion mediated selective C2-H arylation of sulfonamides	Organic and Biomolecular Chemistry (IF=3.412)	2019
6	Steric Hindrance Effect from byproduct Leading to regioselective bromination of phenols with TMSBr	Organic and Biomolecular Chemistry (IF=3.412)	2019
7	Hipervalent iodane mediated reactions of N-Acetyl Enamines for the synthesis of oxazoles and imidazoles	Organic and Biomolecular Chemistry (IF=3.412)	2019
8	Iodine promote direct conversion of esters to nitriles and ketones under metal-free conditions	The Journal of Organic Chemistry (FI=4.335)	2020
9	Mechanistic insights for iodane mediated aromatic halogenation reactions	ChemCatChem (FI=4.853)	2020
10	Catalytic asymmetric carbene insertion reactions into B-H bonds using Ru(II)-peroxy complex	ChemCatChem (FI=4.853)	2020
11	One-pot synthesis of 1H-benzo[<i>f</i>]indole-4,9-dione-barbituric acid hybrids from iodine mediated multicomponent reactions	Organic and Biomolecular Chemistry (IF=3.412)	2020
12	One-pot synthesis of pyrimidine linked naphthoquinone-fused pyrroles by iodine mediated multicomponent reactions	Organic and Biomolecular Chemistry (IF=3.412)	2020
13	Design synthesis and biological evaluation of 1-(5-benzylthio)-1,3,4-(thiadiazol-2-yl)-3-phenylureas derivatives as anticancer agents	Medicinal Chemistry Research (FI=1.7839)	2020
14	Naphthoquinones, Benzoquinones and Anthraquinones: Molecular docking, ADME and inhibition studies on human serum Paraoxonase-1 associated with cardiovascular diseases	Drug Development Research (FI=1.902)	2020
15	Assesing the prevalence of self-medication among healthcare workers before and during the outbreak of COVID-19 pandemic in Kenya	Saudi Pharmaceutical Journal (FI=2.879)	2020
16	"Iodine(III)-Mediated Fluorination/Semipinacol Rearrangement Cascade of 2-Alkylidenecyclobutanol Derivatives: Access to β -Monofluorinated Cyclopropanecarbaldehydes"	The Journal of Organic Chemistry (FI=4.335)	2021
17	Facil and efficient nitration of 4-aryl-1(2H)-phtalazinone derivatives using different nitrating Catalyst	Chemistry Select (FI= 2.307)	2021

18	The Different Performance of BF_3 , BCl_3 , and BBr_3 in Hypervalent Iodine-Catalyzed Halogenations	The Journal of Organic Chemistry (FI=4.335)	2022
19	Recent Synthetic Applications of Hypervalent Iodine Reagents. A Review	Organic Preparations and Procedures International (FI= 1.19)	2022

14. Referee for Disclosure Articles

1. Article: The coffee cherry, a healthy alternative. For the Millenary Magazine, Science and Art. From the Michoacán University of San Nicolás de Hidalgo. February 16, 2018.
2. Article number 20182249. For the Acta Universitaria Magazine. From the University of Guanajuato. November 15, 2018.
3. Reviewer of the extensive articles of works that were presented at the 6th Annual Meeting of Students: Research and Innovation at the DCNE. October 23 to 25, 2019. Within the framework of the fourth week of innovation, entrepreneurship and research of the DCNE. University of Guanajuato.
4. Reviewer of the extensive paper: Intensified processes for the production of furfural from xylose, which was presented at the 8th Annual Meeting of Students: Research and Innovation at the DCNE. Guanajuato, Gto., on the 10th day of the month of January 2022.

15. Referee of Research Projects

1. Proyecto: “SÍNTESIS DE HETEROCICLOS NITROGENADOS UTILIZANDO COMO PLATAFORMA CARBENOS ORGANOMETÁLICOS DE FISCHER” Evaluado para la Universidad de Guanajuato, Convocatoria Institucional de Investigación Científica 2020. 12 de marzo 2020.
2. Proyecto: “SINTESIS DE HETEROCICLOS PEPTIDOMIMETICOS VIA ESTRATEGIAS VERDES BASADAS EN MULTICOMPONENTES”
3. Evaluado para la Universidad de Guanajuato, Convocatoria Institucional de Investigación Científica 2020. 17 de marzo de 2020.
4. Evaluador de 3 proyectos en la categoría de “Sustentabilidad” en el 15 Concurso de creatividad organizado por la Universidad de Guanajuato. 30 de mayo de 2020.
5. Proyecto: “Paradigma Inmunológico del efecto de la UVB en cáncer de mama” Evaluado Para CONACyT en el marco de la Convocatoria “Paradigmas y controversias” del Fondo “Ciencia de Frontera”. 6 de enero de 2022.
6. Proyecto: “Extracción, caracterización, síntesis y ensayos biológicos de compuestos antimicrobianos producidos por Bacillus: Una alternativa prometedora para el tratamiento de infecciones intrahospitalarias por bacterias multidrogresistentes.”Evaluado Para CONACyT en el marco de la Convocatoria “Paradigmas y controversias” del Fondo “Ciencia de Frontera”. 6 de enero de 2022

16. Other Referee Activities

1. Referee to grant the PRODEP Profile of Dr. María Teresa Croda Todd and Dr. Aurora Martínez Romero. Requested by the Ministry of Public Education (SEP) of Mexico. June 19, 2018.
2. Referee of national and international applications for the XXII Pacific Scientific and Technological Research Summer of the Delfin Program. March 2017.
3. Referee of national and international applications for the XXIII Pacific Scientific and Technological Research Summer of the Delfin Program. April 2018.
4. Jury at the 5th Annual Student Meeting: Research and Innovation at the DCNE. October 6, 2018.
5. Reviewer of papers at the 5th Annual Student Meeting: Research and Innovation at the DCNE. October 6, 2018.

17. WORKSHOP GIVEN

1. Course-workshop “Strategies for the Teaching of Chemistry”. For High School Chemistry teachers at DCNE-Campus Guanajuato and ENMS-Pénjamo Moroleón Extension of the University of Guanajuato. August 22 to September 26, 2015. **Duration 20 hours.**
2. Course-workshop “Chemistry Training Workshop”. For High School Chemistry teachers at DCNE-Campus Guanajuato and ENMS-Pénjamo Moroleón Extension of the University of Guanajuato. October 31 to December 12, 2015. **Duration 20 hours.**
3. 1st course-workshop "Chemical Reactions". Updating in Chemistry for professors of the Upper Secondary Level of the University of Guanajuato. Organized by the ENMS of Guanajuato, Gto. June 21 and 22, 2016. **Duration 8 hours. 40 teachers.**
4. 1st workshop course “Chemical Reactions”. Updating in Chemistry for professors of the Upper Secondary Level of the University of Guanajuato. Organized by the ENMS of Guanajuato, Gto. June 21 and 22, 2016. **Duration 8 hours. 40 teachers.**
5. Workshop on "Update on Selected Topics in Organic and Analytical Chemistry for High School Teachers." Virtual mode. Organized by the Universidad Michacana de San Nicolás de Hidalgo, on the occasion of the 56th Anniversary of the Faculty of Chemical Engineering. April 27 to May 5, 2021. **Duration 40 hours.**

18. TRAMITS OF PATENTS. REGISTRATION AND CONCESSIONS

1. Process without transition metals for the synthesis of 2-aryl-4-aryloxyquinolines through the formation of the Csp²-O bond using bisaryl salts of iodine (III).
Patent Application: MX/a/2017/014873
Inventors: César Rogelio Solorio Alvarado, Pradip D. Nahide and Marco Antonio Ramírez Morales.
Granted Patent Title: No 385420
Issue Date: August 12, 2021
Expiration Date: November 21, 2037
2. Total synthesis of the marine alkaloid kealiquinone, structural analogs and biological evaluation of its activity in cancer cells.
Patent Application in Process: MX/a/2018/015273
Inventors: César Rogelio Solorio Alvarado, Velayudham Ramadoss and Ángel Josabad Alonso Castro.
3. Procedure for chlorination, bromination, and iodination of arenes and heteroarenes using I(III) reagents as oxidant.
Patent Application in Process: MX/a/2018/015266
Inventors: César Rogelio Solorio Alvarado, Velayudham Ramadoss, Pradip D. Nahide, Luis Alberto Segura Quezada, Perla Iliana Ramírez Morales, Yuvraj Satkar, Luisa Fernanda Yera Ledesma.

19. FINANCIAL GRANTS

- 1. Title:** “Synthetic and experimental development of compounds with potential antitumor and reversal activity in multidrug resistance (MDR) cell lines and their application to the chronic disease care model (CCM).”
Key: GTO-2012-C03-194610
Amount: \$1,515,000 MXN
Funding Agency: CONCyTEG-CONACyT (FOMIX 2012)
Project Manager
 - 2. Title:** Functionalization of Pyridines mediated by new hypervalent reagents of I(III).
Amount: \$323,637 MXN
Funding Agency: PROMEP (SEP)
Project Manager
 - 3. Title:** “Activation and Functionalization of the Benzyl C-H Bond Catalyzed by Au(I) Cationic Complexes via [1,5]-Hydride Migration and Concomitant Capture of the Cationic Intermediate
Amount: \$100,000 MXN
Funding Agency: DAIP (UG)
Project Manager
 - 4. Title:** “Scalable Convergent Regiocontrolled Total Synthesis of Kealiquinone, Analogs and Biological Activity Assays”
Amount: \$1,490,000 MXN
Funding Agency: CONACyT (Basic Science 2014)
Project Manager
 - 5. Title:** "Synthesis of Oral Antidiabetics Derivatives of Metformin"
Amount: \$256,000 MXN
Financing Agency: Government of the State of Guanajuato (FINNOVATEG 2015)
Project Manager
 - 6. Title:** "Synthesis of fluoroquinolones as potential therapeutic agents in chemotherapy against gram (+) bacteria responsible for respiratory tract infections"
Amount: \$342,000 MXN
Financing Agency: Government of the State of Guanajuato (FINNOVATEG 2015)
Project Manager
 - 7. Title:** "Synthesis and formulation at 40% (W/V) of sodium bisalkyldithiocarbamate-based bactericides for the soaking stage tannery process".
Amount: \$300,000 MXN
Financing Agency: Government of the State of Guanajuato (FINNOVATEG 2015)
Project Manager
 - 8. Title:** “Double arylation of phenols in a single reaction mediated by bisaryl salts of iodine(III) via radical activation and sequential formation of the $C_{sp^2}-O/C_{sp^2}-sp^2$ bond: Synthesis of New PAH's
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Amount: \$100,000 MXN

Financing Agency: Government of the State of Guanajuato (DAIP-UG)

Project Manager

9. **Title:** Development of new reactions catalyzed by gold(I) for the synthesis of compounds containing indole, benzo[*c*][1,2]oxazines, carbazoles and cyclohepta[*b*]pyrrole as potential antineoplastic candidates in breast cancer therapy : Cytotoxic activity assays and QSAR study.

Amount: \$3,150,000 MXN

Funding Agency: CONACyT (Frontier Science 2019)

Participant (\$940,000 MXN allocated amount)

10. **Title:** Synthesis and Biological Evaluation of Non-Steroidal Anti-Inflammatory Drugs (NSAIDs) derived from Indomethacin

Amount: \$100,000

Funding Agency: DAIP (UG)

Project Manager

TOTAL TO DATE: \$5,466,000

20. INTERNATIONAL PROJECTION OF MY RESEARCH GROUP

20.1. Foreign Students in My Research Laboratory

1. **Coming from France.** I received the Student *Erafi Yassine* from the **University of Lyon**, France for the period between February and May 2016. Where he was involved in various ongoing research projects.
2. **Coming from France.** I received the Student *Erafi Yassine* from the **University of Lyon**, France for the period from June 1 to August 31, 2016. Where he was involved in various ongoing research projects.
3. **From India.** I made the necessary arrangements for the Masters in Sciences, *Pradip D. Nahide* and *Velayudham Ramadoss* from India, to join my research group as regular students of the Traditional Doctorate Program in the Chemistry Postgraduate Program at the University of Guanajuato. September 2014.
4. **From India.** I made the necessary arrangements for the Masters in Sciences, *Yuvraj Vithoba Satkar* and *Tushar Pawar* from India, to enter my research group as regular students of the Traditional Doctorate Program in the Chemistry Postgraduate Program of the University of Guanajuato. February 2016.
5. **From India.** I made the necessary arrangements for the Masters in Sciences, *Patil Dipak Bathu* and *Mali Narendra Sukalal* from India, to enter my research group as regular students of the Traditional Doctorate Program in the Chemistry Postgraduate Program at the University of Guanajuato. August 2018.

20.2. Link with other Laboratories Through Student Research Stays Under my Direction

1. **Kyoto University, Japan.** I made the necessary arrangements for my Master's student **Adriana del Carmen Galván Cabrera** to carry out a research stay in the group of Professor **Keiji Maruoka at Kyoto University** in Japan. For the period from October 14 to December 9, 2014.
2. **University of Toronto, Canada.** I made the necessary arrangements for my Master's student **Kevin Arturo Juárez Ornelas** to carry out a research stay in the group of Professor **Mark Lautes** at the University of Toronto in Canada. For the period from August 1 to October 31, 2016.
3. **University of Pennsylvania, USA.** I made the necessary arrangements for my PhD student **Pradip D Nahide** to carry out a research stay in the group of Professor **Marisa Kozlowski** at the University of Pennsylvania in the USA. For the period from January 1 to October 31, 2017.
4. **University of Sweden, Stockholm.** I made the necessary arrangements for my doctoral student **Juvraj Vithoba** satkar to carry out a research stay in the group of Professor **Berit Olofsson** at the University of Sweden, Stockholm. For the period from April 27 to July 21, 2017.
5. **Kyoto University, Japan.** I made the necessary arrangements for my Master's student **Kevin Arturo Juárez Ornelas** to carry out a research stay in the group of Professor **Keiji Maruoka** at Kyoto University in Japan. For the period from June 1 to November 30, 2018.

20.3 Personal Stay of Research in other Universities

1. **Kyoto University, Japan (As Visiting Professor)**. I carried out a research stay in the group of **Professor Keiji Maruoka** at the **University of Kyoto in Japan** as a **Visiting Professor**, to complete the collaborative project entitled: *"Nitration of Arenes Catalyzed by I(III) reagents"*. For the period from October 30 to November 27, 2018.
 - This research stay resulted in the publication: Iodine(III)-catalyzed Electrophilic Nitration of Phenols via Non-Brønsted Acidic NO₂⁺ Generation *Org. Lett.* **2019**, *21*(5), 1315-1319. DOI: [10.1021/acs.orglett.8b04141](https://doi.org/10.1021/acs.orglett.8b04141)
 - *And was included in the virtual issue "Celebrating Chemistry in Latin America" published by The American Chemical Society (ACS).*

20.4 Distinctions for International organizations

1. In **September 2020**, the publishing house "**The American Chemical Society (ACS)**", published a virtual number entitled: "**Celebrating Chemistry in Latin America**" by the magazines **Organic Letters, The Journal of Organic Chemistry and Organometallics**, this number contains the most significant scientific developments made in Latin America recently. Thus, I had the great honor of receiving the distinction that **2 of my articles**: OL, 2019, 21, 1315-1319 and JOC 2019, 84, 4149-4164 were selected among others by Mexico (https://pubs.acs.org/page/vi/chemistry-from-latin-america?ref=vi_journalhome)

20.5. International Collaboration Invitations

1. On April 6, 2021, Professor **Toshifumi Dohi**, from **Ritsumeikan University in Osaka Japan**, kindly invited me to publish an invited review in the Organic and Biomolecular Chemistry Journal. The foregoing as a result of the iodine(III) chemistry that we have developed in our research group and that has already been projected internationally. The result was 2 review articles that have already been published and that both were required to be the external cover of numbers 16 and 25 of 2022 in the aforementioned Journal. The references are as follows:

- [1] Diaryliodonium(III) salts in one-pot double functionalization of C-I^{III} and ortho C-H bonds.
Org. Biomol. Chem. **2022**, *20*, 3231-3248. DOI: 10.1039/D1OB02501E
Kotaro Kikushima, Elghareeb E. Elboray, J. Oscar C. Jiménez-Halla, [César R. Solorio-Alvarado*](#) and Toshifumi Dohi*
- [2] Iodine(III) Reagents for the Oxidative Aromatic Halogenation
Org. Biomol. Chem. **2022**, *20*, 5009-504. DOI: 10.1039/D2OB00741J
Luis A. Segura-Quezada, Karina R. Torres-Carbajal, Kevin A. Juárez Ornelas, Ángel J. Alonso-Castro, Rafael Ortíz-Alvarado,* Toshifumi Dohi* and [César R. Solorio-Alvarado.*](#)

20.6. Invitation to Professors of Recognized Career to Give Lectures at the University of Guanajuato

1. As part of the "Jacobo Gómez Lara" series of seminars of the Postgraduate in Chemistry of the University of Guanajuato, I kindly invited **Professor Marisa Kozlowski** to give a lecture in our postgraduate course. September 18, 2018.

21. MEMORIAS

1. XLIX National and VII International Congress of Pharmaceutical Sciences.
Work: *Effect of Glycoprotein P Inhibitors on Bacillus subtilis resistant to Rhodamine 6G*.
Huatulco, Guerrero September 4 to 7, 2016.
 2. VI Iberoamerican Congress of Analytical Chemistry and National Meeting of Environmental Chemistry.
Work: *Synthesis of Antihyperglycemic Analogs Derived from Metformins*
Cancun, Quintana Roo, November 15 to 18, 2016.
 3. "Science, Innovation and Entrepreneurship at DCNE 2016" Event Organized by the Division of Natural and Exact Sciences of the University of Guanajuato.
Work: *Evaluation of a bacterial model resistant to Rhodamine 6G to search for new P-glycoprotein (Pgp) inhibitors*. Page 14.
 4. XII Mexican Academy of Organic Chemistry.
Work 1: *Total Synthesis of Coridaldine, Synthetic Study*
Paper 2: *Advances in the total synthesis of graveoline cusparine, galipine, graveolinine, eduline, reevesianine-A, and analogues thereof*
Paper 3: *Total Synthesis of Kealiquinone*
Silao, Guanajuato March 7 to 11, 2016.
https://www.amqo.org/wp-content/uploads/memorias/Memorias_AMQO-2016.pdf
 5. International Research Congress of Academia Journals.com, Celaya 2017.
Work: *Nutritional Quality of Oil from Seeds of the Rosaceae Taxonomic Family, Commercial and Native Species*.
 6. "Multidisciplinarity in Scientific Research at DCENE 2017" Event Organized by the Division of Natural and Exact Sciences of the University of Guanajuato.
Work1: *Synthesis of n-alkyl-n-arylbisguanidine antidiabetics derived from metformin*. Page 33.
Work2: *Total Synthesis Kealiquinone* Pag. 165.
 7. L National Congress of Pharmaceutical Sciences
Work: *Evaluation of new Molecules Derivatives of Maleimides with potential reversal effect of resistance*
Tequila, Jalisco. September 3 to 7, 2017.
 8. XIII Mexican Academy of Organic Chemistry.
Work 1: *Synthesis and biological evaluation of 2-aryl-4-aryloxyquinolines as fungicides*
Work 2: *Total synthesis of analogue of kealiquinone*
Paper 3: *Hypoglycemic derivatives with a bisguanidine core*
Paper 4: *Methodology for the O- and C-arylation of phenols in a step free of transition metals*
Paper 4: *Koser reagent-mediated indole synthesis*
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Villahermosa, Tabasco April 3 to 7, 2017.
<https://www.amqo.org/13-meeting-amqo-2016/>

9. "Research and Innovation in the DCENE: Strengthening the Scientific Vocation and Entrepreneurship" Event Organized by the Division of Natural and Exact Sciences of the University of Guanajuato.
Work: ***Electrophilic Chlorination and Bromination Mediated by Iodine(III)/AlX₃ (X=Cl, Br). Double function of aluminum salts: Depolymerization of (PhIO)_n and halogen source.*** Page 78.
10. XX International Meeting of Pharmaceutical Sciences.
Paper 1: ***Susceptibility profile of clinical isolates of Acinetobacter baumannii, Stenotrophomonas maltophilia and Enterococcus sp***".
Work 2: ***Intracellular Accumulation and Resistance to R6G in Bacillus subtilis for the search of PGP inhibitors***".
Work 3: ***Determination of the analgesic action between quercetin and ibuprofen***
Guanajuato. Guanajuato, Guanajuato. From October 14 to 16, 2020.

22. BOOK CHAPTERS

1. **Book: New Hypervalent Iodine Reagents for Oxidative Coupling.**
Dohi, T., Han, J.-W., Kumar, R., eds (2021). Lausanne: Frontiers Media SA.
doi: 10.3389/978-2-88966-650-8
“ISSN 1664-8714,
ISBN 978-2-88966-650-8
 - **Capítulo:** “*The Diaryliodonium(III) Salts Reaction with Free-Radicals Enables One-Pot Double Arylation of Naphthols*” *Front. Chem.* 8:563470.doi.10.3389/fchem.2020.563470. Pag 400-471.
2. **Book: Ciencias e Ingenierías: de la investigación a la innovación.**
Abraham-Peñaloza, P., Lara-Cabrera, Sabina I. eds (2021). Universidad Michoacana de San Nicolás de Hidalgo Coordinación de la Investigación Científica Unidad Profesional del Balsas
ISBN 978-607-542-205-3
 - **Capítulo:** “*Historia de los antecedentes fitoquímicos, de los hipoglicemiantes y antihiperlipemiantes modernos. Revisión*”.
Pag 138-143