

# STUDENT PRESENTATIONS

(total of 110; undergraduate - 62)

1. Deravakian, A. The Chemistry of the Co-Alkyne Complexes. Students' Research Seminar, CSUN, Northridge, CA, **1996**.

2. Deravakian, A. Diastereoselective Coupling of Organometallic Radicals. Sigma Xi Competition CSUN, Northridge, CA, **1996**.

3. Yadegar, S. Carbon-Carbon Bond-Forming Reactions Promoted by Trivalent Manganese. Students' Research Seminar, CSUN, Northridge, CA, **1996**.

4. Bright, S. Polystabilized Cobalt-Complexed Propargyl Cations and Radicals. Southern California Conference on Undergraduate Research, Los Angeles, CA, **1996**.

5. Deravakian, A. Diastereoselective Coupling of Organometallic Radicals. Southern California Conference on Undergraduate Research, Los Angeles, CA, **1996**.

6. Deravakian, A. Hydride-Ion, Lewis Acid-Induced Highly Diastereoselective Coupling of Cobalt-Complexed Propargyl Alcohols. ACS 213th National Meeting, San Francisco, CA, **1997**.

7. Yadegar, S. Radical Additions to Chiral Co-Complexed Conjugated Enynes. ACS 213th National Meeting, San-Francisco, CA, **1997**.

8. Myer, S. Syntheses Involving Generation and Coupling of Cobalt-Complexed Propargyl Radicals. 1st CSUN Student Research Symposium, Northridge, CA, **1997**.

9. Amiryan, F. Manganese(III)-Glycolate: a Novel Radical Mediator. 1st CSUN Student Research Symposium, Northridge, CA, **1997**.

10. Yadegar, S. Manganese(III)-Mediated Radical Cycloadditions: Mechanistic Study. Sigma Xi Competition CSUN, Northridge, CA, **1997**.

11. Deravakian, A. Can Tetrahydrofuran Act as a One-Electron Donor? Sigma Xi Competition CSUN, Northridge, CA, **1997**.
12. Myer, S. Novel Methods for the Construction of 1,5-Cycloalkadiynes. ACS 214th National Meeting, Las Vegas, CA, **1997**.
13. Amiryan, F. Taylor-Made Manganese Complexes. ACS 214th National Meeting, Las Vegas, CA, **1997**.
14. Amiryan, F. Manganese(III)-Based Catalysts for Asymmetric Epoxydation. Students' Research Seminar, CSUN, Northridge, CA, **1997**.
15. Yadegar, S. Toward Stereocontrolled Radical Reactions: Generation and Synthetic Utility of Co-Complexed Propargyl Radicals. 2nd CSUN Student Research Symposium, Northridge, CA, **1997**.
16. Deravakian, A. An Activated C-H Bond as a Source of Electrons: Stereoselective Inter- and Intramolecular Radical Couplings. Southern California Conference on Undergraduate Research, Los Angeles, CA, **1997**.
17. Yadegar, S. Novel Approach Toward Stereoselective Radical Reactions of Cobalt-Complexed Enynes. Twelfth Annual CSU Student Research Competition, Chico, CA, **1998**.
18. Deravakian, A. Nontraditional Radical Chemistry: Recent Advances. Sigma Xi Competition CSUN, Northridge, CA, **1998**.
19. Amiryan, F. Manganese(III)/(II) Glycolated: Syntheses. X-Ray Crystallographic Study, and Utilization in Radical Cycloaddition Reactions. Sigma Xi Competition CSUN, Northridge, CA, **1998**.
20. Yadegar, S. Redox Methods for Carbon-Centered Radical Generation. Literature seminar, Department of Chemistry, CSUN, Northridge, CA, **1998**.
21. Christian, N. Radical Reactions in Cobalt-Alkyne Series. 4th CSUN Student Research Symposium, Northridge, CA, **1999**.

22. Myer, S. Electrochemistry of Organometallic Complexes. Literature seminar, Department of Chemistry, CSUN, Northridge, CA, **1998**.
23. Yadegar, S. Chiral Cobalt-Complexed Conjugated Enynes: Design, Synthesis and Radical Cycloaddition Reactions, thesis defense, Department of Chemistry, CSUN, Northridge, CA, **1999**.
24. Myer, S. Coupling Reactions of Dicobalt Hexacarbonyl Propargyl Radicals, thesis defense, Department of Chemistry, CSUN, Northridge, CA, **1999**.
25. Riahi, B. The C-H Bond Activation by Transition Metal Complexes. Literature seminar, Department of Chemistry, CSUN, Northridge, CA, **1999**.
26. Shendelson, G. Chemical Carcinogens: Classification, Mechanism of Action, and Biotesting. Literature seminar, Department of Chemistry, CSUN, Northridge, CA, **1999**.
27. Christian, N. Reductive Dimerization of Propargyl Alcohols: New Insight into the Mechanism and Controlling Factors. Sigma Xi Competition CSUN, Northridge, CA, **2000**.
28. Villena, F. Vanadium Compounds as Insulin Mimics. Literature seminar, Department of Chemistry, CSUN, Northridge, CA, **2000**.
29. Villena, F. Stereoselective Dimerization of Cobalt-Complexed Propargyl Cations Mediated by DNA Mimics. Sigma Xi Competition CSUN, Northridge, CA, **2000**.
30. Ahrens, B. Novel Synthetic Applications of Transition Metal-Alkyne Complexes: Total Synthesis of d,l-Hexestrol. 5th CSUN Student Research Symposium, Northridge, CA, **2000**.
31. Riahi, B. Transition Metal-Based Coordination Complexes for DNA-Probing. ACS 221th National Meeting, San Diego, CA, **2001**.
32. Ahrens, B. Novel Synthetic Applications of Cobalt-Alkyne Complexes. Total Synthesis of d,l-Hexestrol. ACS 221th National Meeting, San Diego, CA, **2001**.
33. Villena, F. Mechanistic Investigation of Cobalt-Complexed Propargyl Radical Dimerization. 37th ACS Western Regional Meeting, Santa Barbara, CA, **2001**.

34. Riahi, B. Novel Organometallic Probes for Biochemical Studies. Thesis defense, Department of Chemistry, CSUN, Northridge, CA, **2001**.
35. Villena, F.; Scanlon, S.; Matchett, J.; Sepanian, S. The "CSUN Reaction": Current Level of Understanding, Biological Relevance, and its Practical Application. 6th CSUN Student Research Symposium, Northridge, CA, **2001**.
36. Pulido, M. Understanding the "CSUN Reaction": Synthesis of the Model Compound, 3-(4'-Methoxyphenyl)-1-propyne Dicobalthexacarbonyl Complex. RISE Program Annual Symposium, Northridge, CA, **2002**.
37. Pulido, M. Spontaneous Generation and Coupling of Cobalt-Complexed Propargyl Radical. 7th CSUN Student Research Symposium, Northridge, CA, **2002**.
38. Florut, A. Developing Novel Inhibitors of Microtubule Assembly. Sigma Xi Competition CSUN, Northridge, CA, **2003**.
39. Villena, F. Novel Reactions of Ligand-Based Organometallic Radicals. Thesis defense, Department of Chemistry, CSUN, Northridge, CA, **2003**.
40. Pulido, M.; Sarkissian, H.; Sepanian, S. Spontaneous Generation and Coupling of Cobalt-Complexed Propargyl Radicals. Annual CSU Student Research Competition, Stanislaus, CA, **2003**.
41. Florut, A.; Wild, C. Radical C-C Bond Formation in Cobalt-Propargyl Complexes: Stereoselective Access to the Novel Nonsteroidal Hormones. 227th ACS National Meeting, Anaheim, **2004**.
42. Florut, A. Regio- and Stereoselectivity of Organometallic Radical Cross-Coupling Reactions and Their Relevance to Medicinal Chemistry. IXth CSUN Student Research Symposium, Northridge, CA, **2004**.
43. Rowe, A.; Terzian, A. Stereoselective Synthesis of D,L-3,4-Di(3',4'-dimethoxyphenyl)-1,5-hexadiyne, a Potential Aromatase Inhibitor. IXth CSUN Student Research Symposium, Northridge, CA, **2004**.
44. Rowe, A. Pheromones. Literature seminar, Department of Chemistry & Biochemistry, CSUN, Northridge, CA, **2004**.

45. Carlson, A. Structure-Activity Relationships of Estrogen Receptor Modulators. Literature seminar, Department of Chemistry & Biochemistry, CSUN, Northridge, CA, **2005**.
46. Rowe, A. Stereoselective Synthesis of D,L-3,4-Di(3',4'-dimethoxyphenyl)-1,5-hexadiyne, a Potential Aromatase Inhibitor. CSU-Wide Student Research Competition, Sacramento, CA, **2005**.
47. Florut, A.; Devletyan, L. Probing a Cross-Coupling of Organometallic Radicals: Stereoselective Access to Unsymmetrical D,L-3,4-Diphenyl-1,5-alkadiynes. 40<sup>th</sup> Western ACS Regional Meeting, Anaheim, CA, **2006**.
48. Rowe, A. Topologically Diverse D,L-3,4-Diaryl-1,5-alkadiynes: Design, Stereoselective Synthesis, and Biotesting. Thesis defense, Department of Chemistry&Biochemistry, CSUN, Northridge, CA, **2006**.
49. Melikyan, G. G.; Wild, C. Cobalt-Induced Stereoselectivity of Intramolecular Radical Reactions. 232<sup>th</sup> ACS National Meeting, San Francisco, **2006**.
50. Wild, C. Developing Stereoselective Synthesis of 1,5-Cycloalkadiynes. Sigma Xi Competition CSUN, Northridge, CA, **2006**.
51. Wild, C. Developing Stereoselective Synthesis of 1,5-Cycloalkadiynes. 11th CSUN Student Research Symposium, Northridge, CA, **2006**.
52. Wild, C. Synthesis of Topologically Diverse Eneidyne: Potential Anticancer Agents. Emeritus Faculty Luncheon, College S&M, CSUN, Northridge, CA, **2006**.
53. Floruti, A. Sneak Poison: Healing Bite. Literature seminar, Department of Chemistry & Biochemistry, CSUN, Northridge, CA, **2006**.
54. Wild, C. Drug Design: Target Identification, Target Validation, Prodrug Design, and Lead Optimization. Literature seminar, Department of Chemistry & Biochemistry, CSUN, Northridge, CA, **2007**.
55. Wild, C. Exploiting a Phenomenon of CH/ $\pi$  Coordination: Interpretation of the Diastereoselectivity of Cobalt-Mediated Intramolecular Radical Cyclizations. 12th CSUN Student Research Symposium, Northridge, CA, **2007**.

56. Mikailian, B. Novel High-Temperature and Spontaneous Radical Coupling Reaction: Kinetic Studies. 12th CSUN Student Research Symposium, Northridge, CA, **2007**.
57. Wild, C. Unexpected Trends in Metal Cluster-Directed, Intramolecular Radical Cyclizations. 235<sup>th</sup> ACS National Meeting, New Orleans, **2008**.
58. Mikailian, B. A High-Temperature, Spontaneous, and Cobalt Cluster-Mediated Radical Coupling Reaction. 235<sup>th</sup> ACS National Meeting, New Orleans, **2008**.
59. Mikailian, B. Cobalt-Mediated High-Temperature Radical Coupling Reactions. 10th Annual Sigma Xi Scientific Research Society — CSUN Chapter Student Symposium, Northridge, CA, **2008**.
60. Floruti, A. Cross-Coupling of Cobalt-Complexed Propargyl Radicals: Chemo-, Regio-, and Diastereoselective Access to 3,4-Diaryl-1,5-hexadiynes. Thesis defense, Department of Chemistry & Biochemistry, CSUN, Northridge, CA, **2008**.
61. Carlson, L. Toward Non-Toxic Therapeutics for a Breast Cancer Treatment: Cobalt-Mediated Stereoselective Synthesis of Substituted d,l-3,4-Diphenyl-1,5-hexadiynes. 10th Annual Sigma Xi Scientific Research Society — CSUN Chapter Student Symposium, Northridge, CA, **2008**.
62. Wild, C. A Novel Approach Toward the Synthesis of Eneidyne: Metal-Directed Formation of Medium-Sized Cyclic Diacetylenes. CSU-wide Student Research Competition, CSU East Bay, Hayward, CA, **2008**.
63. Wild, C. Cobalt-Assisted Intramolecular Radical Cyclization Reactions. Thesis defense, Department of Chemistry & Biochemistry, CSUN, Northridge, CA, **2008**.
64. Carlson, L. Cobalt-Mediated Synthesis of d,l-3,4-Diphenyl-1,5-hexadiynes Containing Acid-Labile Aromatic Substituents. Association of Retired Faculty Luncheon, CSUN, Northridge, CA, **2008**.
65. Melikyan, G. G.; Mikailian, B.; Sepanian, R. The Effect of Counter-ion, Temperature, and Substitution upon the Spontaneous, Cobalt Cluster-Mediated Dimerization Reaction. 42<sup>nd</sup> Western Regional ACS Meeting, Las Vegas, **2008**.

66. Melikyan, G. G.; Carlson, L.; Spencer, R. Impact of Aromatic Substitution and Reducing Agent on Diastereoselectivity of Intra- and Intermolecular Cobalt-Mediated Radical Reactions. 42<sup>nd</sup> Western Regional ACS Meeting, Las Vegas, **2008**.

67. Spencer, R. Radical Carbon-Carbon Bond Formation Stereodirected by an Alpha-Metal Core. 13th CSUN Student Research Symposium, Northridge, CA, **2009**.

68. Spencer, R. Inhibition of Sulfatase: a New Frontier in Breast Cancer Treatment. Literature seminar, Department of Chemistry & Biochemistry, CSUN, Northridge, CA, **2009**.

69. Sepanian, R. Overcoming a Longstanding Challenge: Synthesis of Cobalt-Complexed Propargyl Cations under Neutral Conditions. 11th Annual Sigma Xi Scientific Research Society — CSUN Chapter Student Symposium, Northridge, CA, **2009**.

70. Spencer, R. Controlling Stereoselectivity of Cobalt-Mediated Inter- and Intramolecular Coupling Reactions. 11th Annual Sigma Xi Scientific Research Society — CSUN Chapter Student Symposium, Northridge, CA, **2009**.

71. Sepanian, R. Generation of Cobalt-Complexed Propargyl Cations under Neutral Conditions. 2009 Southern California Undergraduate Research Conference (SCURC) in Chemistry and Biochemistry, USC, Los Angeles, CA, **2009**.

72. Shahmirian, S. Propargyl Methyl Ethers: Novel Precursors to Cobalt-Complexed Propargyl Cations. Southern California Junior Academy of Sciences (SCJAS) Annual Meeting, Marymount College, Palo Verdes, CA, **2009**.

73. Spencer, R. Radical Carbon-Carbon Bond Formation Stereodirected by an Alpha Metal Core. Salva Regina University, Newport, RI, **2009**.

74. Shahmirian, S. Propargyl Methyl Ethers: Novel Precursors to Cobalt-Complexed Propargyl Cations. AAAS Pacific Division Annual Meeting, San Francisco, CA, **2009**.

75. Spencer, R. First Stereoselective Synthesis of meso-1,5-Cyclodecadiynes. 14th CSUN Student Research Symposium, Northridge, CA, **2010**.

76. Sepanian, R. Novel Methods for the Synthesis of Breast Cancer Aromatase Inhibitors. 14th CSUN Student Research Symposium, Northridge, CA, **2010**.

77. Voorhees, E. The Use of a Rigid Carbon Tether as a Stereochemical Tool in Intramolecular Radical Cyclizations. 14th CSUN Student Research Symposium, Northridge, CA, **2010**.

78. Spencer, R. Novel Methods for Controlling Stereoselectivity of Radical C-C Bond Forming Reactions. Graduate Fellows with Outstanding Research Promise in Science and Mathematics Symposium, College of Science & Math, CSUN, Northridge, CA, **2010**.

79. Spencer, R. Inter- and Intramolecular Radical C-C Bond Formation Mediated by a Transition Metal Core. Thesis defense, Department of Chemistry & Biochemistry, CSUN, Northridge, CA, **2010**.

80. Voorhees, E. The Use of a Rigid Carbon Tether as a Stereochemical Tool in Intramolecular Radical Cyclizations, CSU-wide Student Research Symposium, San Jose, CA, **2010**.

81. Sepanian, R. Generation of Cobalt-Complexed Propargyl Cation Under Neutral Conditions and Their Biological Relevance. Thesis defense, Department of Biology, CSUN, Northridge, CA, **2010**.

82. Harutyunyan, S.; Rivas, B. Naphthalene-Stabilized Propargyl Cations and Radicals in Carbon-Carbon Bond Forming Reactions. 15th CSUN Student Research Symposium, Northridge, CA, **2011**.

83. Melikyan, G. G.; Harutyunyan, S.; Rivas, B. Generation of Cobalt-Complexed Propargyl Cations Under Neutral Conditions: Expansion of the Substrate Base. 241<sup>th</sup> ACS National Meeting, Anaheim, **2011**.

84. Rivas, B.; Harutyunyan, S. Diastereoselectivity of Radical Carbon-Carbon Bond Formation in Naphthalene-Stabilized Propargyl Cations. Southern California Undergraduate Research Conference, Santa Barbara, CA, **2011**.

85. Voorhees, E. Testosterone and Male Hormone Replacement Therapy. Literature seminar, Department of Chemistry and Biochemistry, CSUN, Northridge, CA, **2011**.

86. Melikyan, G. G.; Darabidian, V.; Meron, D. Novel Syntheses of Polysubstituted, Alkynylated Cycloalkanes via Transition Metal-Mediated Radical Cyclizations. 243<sup>th</sup> ACS National Meeting, San Diego, **2012**.

87. Melikyan, G. G.; Voorhees, E.; Garrison, M. Propargyl Acetals as New Substrates in Transition Metal-Mediated Radical C-C Bond Formation Reactions. 243<sup>th</sup> ACS National Meeting, San Diego, **2012**.

88. Darabidian, V. Assembling Six-Membered Carbocycles via Radical Cyclization Reactions. 15th CSUN Student Research Symposium, Northridge, CA, **2012**.

89. Melikyan, G. G.; Hughes, R.; Sahakyan, N. Alpha-Alkenyl Propargyl Radicals: Regio- and Stereoselectivities of Cobalt-Directed Dimerization Reactions. 245<sup>th</sup> ACS National Meeting, New Orleans, **2013**.

90. Melikyan, G. G.; Darabidian, V. Stereoselectivity of Intramolecular Radical Cyclizations Mediated by a Transition Metal Core. 245<sup>th</sup> ACS National Meeting, New Orleans, **2013**.

91. Sahakian, N. Cobalt Cluster-Stabilized, Highly Conjugated Propargyl Radicals: Stereoselectivity of Intermolecular Coupling Reactions. 16th CSUN Student Research Symposium, Northridge, CA, **2013**.

92. Hughes, R. Highly Regioselective Dimerization Reactions of  $\alpha$ -Alkenyl Propargyl Radicals. 16th CSUN Student Research Symposium, Northridge, CA, **2013**.

93. Darabidian, V. Toward stereoselective assembling of linearly and angularly fused carbocycles. 16th CSUN Student Research Symposium, Northridge, CA, **2013**.

94. Anker, B. alpha-Alkynyl Propargyl Radicals, a New Class of Reactive Intermediates in Transition Metal-Mediated Carbon-Carbon Bond Forming Reactions. 15th Annual Sigma Xi Student Research Symposium, CSUN Chapter of Sigma Xi, CSUN, Northridge, CA, **2013**.

95. Sahakian, N. Cobalt Cluster-Stabilized, Highly Conjugated Propargyl Radicals: Stereoselectivity of Intermolecular Coupling Reactions. CSU-wide Student Research Competition, Pomona, CA, **2013**.

96. Voorhees, Erin. Transition Metal-Mediated Radical Reactions of Propargyl Acetals. Thesis defense, Department of Chemistry & Biochemistry, CSUN, Northridge, CA, **2013**.

97. Anker, Bryan. From the Metal-Stabilized, Highly Conjugated Propargyl Intermediates to a New Generation of Tunable DNA-Cleaving Agents for Cancer Treatment. CSUN Alumni Faculty Recognition Luncheon, CSUN, Northridge, CA, **2013**.

98. Melikyan, G. G.; Duncan, K. An Efficient and Stereoselective Method for Constructing Seven-membered Carbo- and Heterocycles. 44<sup>th</sup> ACS Western Regional Meeting, Santa Clara, CA, **2013**.

99. Hughes, R. Vitamin E: Stereoselective Syntheses, Biological Role, and Health Implications. Literature seminar, Department of Chemistry and Biochemistry, CSUN, Northridge, CA, **2013**.

100. Hughes, R. Regio- and Stereoselective Rearrangements in Metal-Assisted Radical Reactions: a Novel Access to Topologically Diverse Molecular Assemblies with Contiguous Quaternary Carbons. 17<sup>th</sup> CSUN Student Research Symposium, Northridge, CA, **2014**.

101. Anker, B. Radical Reactions of 1,4-Alkadiynes: Metal Coordination as an Effective Tool for Controlling a C-C Bond Formation in Highly Delocalized Molecular Structures. 18<sup>th</sup> CSUN Student Research Symposium, Northridge, CA, **2014**.

102. Melikyan, G. G.; Davis, R.; Anker, B.; Duncan, K. Acquiring a Predictive Power: Metal-Mediated Radical Dimerizations of Propargyl Triflates. 248<sup>th</sup> ACS National Meeting, San Francisco, CA, **2014**.

103. Hughes, R. Allylic Rearrangements in Cobalt-Mediated Radical Coupling Reactions. Thesis defense, Department of Chemistry & Biochemistry, CSUN, Northridge, CA, **2015**.

104. Melikyan, G. G.; Cappuccino, S. Interaction of Resveratrol with Human Enzymes: Oxidative Conversion to Procarcinogenic ortho-Hydroquinones. 248<sup>th</sup> ACS National Meeting, San Francisco, CA, **2014**.

105. Melikyan, G. G.; Davis, R. Cobalt-Complexed Propargyl Radicals: Transiency vs Persistency. 2015 ACS Southern California Undergraduate Research Conference (SCURC), La Jolla, CA, **2015**.

106. Melikyan, G. G.; Davis, R. Propargyl Radicals: From Transiency to Persistency to Reaction Site Projection. 250<sup>th</sup> ACS National Meeting, Boston, MA, **2015**.

107. Melikyan, G. G.; Cappuccino, S.; Mousselli, M. Metal Cluster-Enhanced Propargyl Radicals: Expanding a Substrate Base. 250<sup>th</sup> ACS National Meeting, Boston, MA, **2015**.

108. Ryan, D. Animating Periphery in Highly Conjugated Molecular Systems: Radical Carbon-Carbon Bond Formation Epsilon to a Cobalt Core. 17th Annual Sigma Xi Student Research Symposium, CSUN Chapter of Sigma Xi, CSUN, Northridge, CA, **2015**.

109. Melikyan, G. G.; Davis, R. Cobalt-Complexed Propargyl Triflates: Achieving Reducibility by Modulating Covalent Bonds. National Conference on Undergraduate Research (NCUR), Asheville, NC, **2016**.

110. Jensen, J.; Philippas, E.; Cappuccino, S. Metabolic Transformations of Resveratrol by Human Enzymes. 20th CSUN Student Research Symposium, Northridge, CA, **2016**.