

## Thomas Pettus

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### OVERVIEW

Our research program centers upon the synthesis and application of aromatic materials for the construction of complex natural products and compounds for use as diagnostics and medicinal agents. Ours is one of only a handful of programs in the world that aims to expand synthetic methods that pertain to aromatic compounds, and it fulfills a critical need by reducing the bottleneck found in the preparation of medicinally relevant compounds from aromatic motifs. Aromatic chemistry, once a thriving area of research and the basis of the dye industry, has largely been ignored because of its perceived maturity and simplicity. We have demonstrated that novel chiral electrophiles derived from aromatic systems can still make many important contributions to the synthesis of complex natural products. Natural products remain an important area of therapeutic research because they have been prescreened and employed by living systems for billions of years and thus they are often better tolerated in humans than entirely new compositions of matter. As such, natural products continue to provide a rich source of lead compounds for the treatment of a variety of diseases. Most medicinal agents used in chemotherapy today are derived from a natural product and most among these contain an aromatic motif. Over the past review period, the PI choreographed a cascade for the low temperature preparation of o-quinone methides (o-QMs). The PI has successfully utilized this procedure for the preparation of exotic resorcinols, which have been further transformed by enantioselective oxidative dearomatization (EOD) into the versatile non-racemic synthons for construction of densely functionalized cyclohexadienone derivatives. The PI has subsequently demonstrated these new technologies in the total syntheses of mitorubrinic acid, epoxysorbicillinol, brazilin, rishirilide B, the cleroidinins, diinsininone, scyphostatin analogs, the isariotins, the cedrenes, berkelic acid, the rubromycins, and several other natural products. These pursuits have also led to the development of other methods including novel procedures for o-quinone formation, enone epoxidation, and phenol dearomatization.

### EMPLOYMENT HISTORY

Professor of Chemistry, University of California at Santa Barbara	2009-201X
Associate Professor of Chemistry, University of California at Santa Barbara	2005-2009
Assistant Professor of Chemistry, University of California at Santa Barbara	1998-2005
Postdoctoral Fellow, Columbia University ( <a href="#">Danishfesky Group</a> )	1996-1998
Graduate Fellow, University of Rochester ( <a href="#">Schlessinger Group</a> )	1991-1996
Undergraduate Researcher ( <a href="#">Hudlicky Group</a> )	1988-1989
Research Tech. <a href="#">Versar</a> , Inc. Springfield, VA	1984-1985

**EDUCATION**

Post Doctorate, <a href="#">Columbia University</a>	1998
Ph.D. <a href="#">University of Rochester</a>	1996
M.S. <a href="#">University of Rochester</a>	1993
B.S. <a href="#">Longwood University</a>	1990

**HONORS, AWARDS, GRANTS (OVER \$2,000K DIRECT)****University of California**

2009-2013 <a href="#">NIH</a> R01-GM064831-09 "Application of Chiral Cyclohexadienones in Total Synthesis"	800K
2008-2012 <a href="#">NSF</a> CHE-0806356 "Organic Synthesis with Quinone Methides and their Adducts"	360K
2008-2010 <a href="#">TRDRP</a> -NA "Synthesis and Evaluation of Telomerase Inhibitors" for K. L. Wu	56K
2007-2008 UC- <a href="#">CRCC</a> "Developing selective inhibitors of OVCAR-3" for M. A. Marsini	50K
2006-2007 UC- <a href="#">CRCC</a> "Synthesis of the telomerase inhibitors" for K. L. Wu	50K
2005-2007 <a href="#">TRDRP</a> -14DT-0130 "A novel total synthesis of brazilin and brazilide A" for Y. D. Huang	56K
2001-2008 <a href="#">NIH</a> R01-GM064831-05 "Application of Chiral Cyclohexadienones in Total Synthesis"	1,100K
2002-2007 <a href="#">NSF</a> Career-0135031 "New Applications of o-Quinone Methides"	415K
2001-2002 UC- <a href="#">CRCC</a> "A Model for the Anti-Helicase Agent Heliquinomycin" for K. L. Wu	50K
2000-2002 <a href="#">CHRP</a> "Stopping the Progress of HIV: Synthesis of S-Mase Inhibitors"	75K
2000-2002 <a href="#">Petroleum Research Fund-G</a> "Asymmetric Hydride Abstractions from Organometallics"	25K
1998-2000 <a href="#">NSF</a> -9971211 "Syntheses of Biologically Important Molecules"	45K
1998-2000 UC- <a href="#">CRCC</a> "New Synthetic Approaches towards Natural Products"	22K
1998-2000 <a href="#">Research Corporation</a> "Desymmetrization of Enol Ethers with Bisoxazoline Ligands"	35K
1999-2000 UC- <a href="#">CRCC</a> "Development of an Oxidative Asymmetric Cyclizations"	40K

**Columbia University**

1996-1998 NSF postdoctoral fellow in chemistry (the last in this program)

**University of Rochester**

[1994-1995 American Chemical Society Organic Division, SmithKline Beecham Graduate Fellow](#)

1993-1994 Hooker Fellowship

1992-1993 Merck Academic Development Program Fellowship

1991-1992 Bristol-Myers Squibb Graduate Fellow

1990-1991 Sherman-Clarke Graduate Fellow

**Longwood University**

1990-*Summa Cum Laude* with Honors in Chemistry (top 1% of graduating class)

1989-1990 [Barry M. Goldwater Fellow](#)

1989-[USA Today's ALL-USA College Academic Team](#), Honorable Mention,

1990-[Sigma Xi](#) inductee

1988-[Phi Kappa Phi](#) inductee (minimum GPA > 3.75)

**LECTURES & PRESENTATIONS (OVER 100 GIVEN)****Universities (host)**

Shanghai Institute of Organic Chemistry (Shuli You, Ph. D) Shanghai China	Jan 21, 2011
Fudan University (Fen-Er Chen) Shanghai China	Jan 18, 2011

University of Washington St. Louis (Vladimir Birman) St. Louis, MS Nov 17, 2010  
     University of Iowa (Horacio F. Olivo) Iowa City, IA Oct 11, 2010  
     Kansas State University (Paul Hanson) Lawrence KS April 22, 2010  
     Wayne State University (Zhongwu Guo) Detroit MI Oct 30, 2009  
 University of Southern California (Travis William) Los Angeles CA Oct. 23, 2009  
     Northeastern University (Graham Jones) Boston MA June 7, 2009  
     University of Illinois at Chicago (Tom Driver) Chicago IL March 19, 2007  
 Virginia Commonwealth University (Qibing Zhou) Richmond VA Nov. 3, 2005  
     University of Tennessee (David Baker) Knoxville, TN Jan. 13, 2005  
     Dartmouth University (Dennis Wright) Hanover, NH Dec. 14, 2004  
     University of Vermont (José S. Madalengoitia) Burlington, VT Dec. 9, 2004  
     Southwest Medical Institute (Jef De Brabander) Dallas, TX Dec. 7, 2004  
     Auburn University (Gene Hill) Auburn, AL Dec. 1, 2004  
     University of Florida (Kenneth Sloan) Gainesville, FL Nov. 29 2004  
     University of Rhode Island (Bill Euler) Providence, RI Nov. 15, 2004  
 University of California, Irvine (Scott Rychnovsky) Irvine, CA Oct. 22, 2003  
     Temple University (Scott Sieburth) Philadelphia, PA Oct. 28, 2004  
     Stanford University (Justin Dubois) Palo Alto, CA Oct. 15, 2003  
     Cal Tech (Brian Stolz) Pasadena, CA Sept. 24, 2003  
     Ohio State University (Robert Coleman) Columbus, OH Aug. 13, 2003  
     University of Pennsylvania (Gary Molander) Philadelphia, PA May 2, 2003  
     Flinders University, (Michael Perkins) Adelaide, AU Mar. 26, 2003  
     University of Melbourne, (Mark Rizzacasa) Melbourne, AU Mar. 21, 2003  
 Australian National University, (Martin Banwell) Canberra, AU Mar. 19, 2003  
     University of Sydney, (Kate Joliffe) Sydney, AU Mar. 17, 2003  
     Rutgers University (Laurence Williams) Piscataway, NJ April 29, 2003  
     University of Pittsburgh (Peter Wipf) Pittsburgh, IN April 25, 2003  
     Notre Dame (Richard Taylor) South Bend, IN April 22, 2003  
     University of Indiana (David Williams) Bloomington, IN April 21, 2003  
     University of Wisconsin (Steve Burke) Madison, WI April 16, 2003  
     University of Minnesota (Richard Hsung) St. Paul, MN April 15, 2003  
     Scripps Institute (Eric Sorensen) La Jolla, CA Jan. 14, 2003  
     UC San Diego (Emmanuel Theodorakis) San Diego, CA Jan. 13, 2003  
     Florida State University (Marie Krafft) Tallahassee, FL Oct. 29, 2002  
     UC Los Angeles (Mike Jung) Los Angeles, CA Oct. 17, 2002  
     University of Rochester (Andrew Kende) Rochester, NY Nov. 16, 2001  
     Yale University (John Wood) New Haven, CT Nov. 14, 2001  
     University of Connecticut (Amy Howell) Storrs, CT Nov. 12, 2001  
     UC Berkeley (Dirk Trauner) Berkley, CA Oct. 11, 2001  
     UC San Francisco (Kip Guy) San Francisco CA Oct. 10, 2001  
     University of Oregon (Bruce Branchaud) Eugene, OR Oct. 1, 2001  
     Oregon State University (David Horne) Corvallis, OR Sept. 28, 2001  
     UC Riverside (Keith Hollis) Riverside, CA Oct. 5, 2000  
     UC Davis (Michael Nantz) Davis, CA Oct. 3, 2000  
     UC Santa Cruz (Rebecca Braslau) Santa Cruz, CA Oct. 2, 2000

**Colleges/Recruitment talks (host)**

San Diego State University (Shelli McAlpine) San Diego CA	Oct. 15 2010
California State University East Bay (Michael Groziak) Hayward CA	Nov. 20 2009
University of California Santa Cruz (Taro Amagata) San Francisco CA	Nov. 17 2009
San Francisco State University (Malika Bell) Santa Cruz CA	Nov. 16 2009
Longwood University (Melissa C. Rhoten) Farmville VA	Oct. 31, 2005
University of the Pacific (Silvio Rodriguez) Stockton CA	May. 2, 2006
Longwood University (Melissa C. Rhoten) Farmville VA	Oct. 31, 2005
Cal State Chico (Randy Miller) Chico CA	Sept. 12, 2005
Cal State San Diego (Shelli McAlpine) San Diego CA	April 12, 2004
Cal State Chico (Dave Ball) Chico, CA	Aug. 28, 2003
Allegheny College (P.J. Persichini) Meadville, PA	April 24, 2003
SUNY Geneseo	Oct. 4, 2002
Hartwick College	Oct. 3, 2002
SUNY Cortland	Oct. 3, 2002
SUNY Oswego	Oct. 2, 2002
St. Lawrence University Canton, NY	Oct. 1, 2002
SUNY Potsdam Potsdam, NY	Oct. 1, 2002
SUNY Plattsburgh Plattsburgh, NY	Sept. 30, 2002
Cal State SF	Nov. 15, 1999
Cal State Chico (Dave Ball) Chico, CA	Nov. 22, 1998

**Presentations at Conferences and Meetings**

Invited Lecturer, ICHC 2011 Glasgow Scotland ( <a href="#">Colin Suckling</a> )	Aug 1, 2011
Plenary Lecturer, QOMBOC 2010 Brock University ( <a href="#">Travis Dudding</a> )	May 22, 2010
Heterocycles, Regina Salve, RI (Moody and Vargas)	June 28-July 3, 2009
Natural Products, Tilton, NH (Scott Gilbertson)	July 20-25, 2008
Heterocycles, Regina Salve, RI (Briner and Moody)	June 15-21, 2008
Marine Natural Products, Ventura Beach Marriott, CA (Crews and Carter)	Feb 24-29, 2008
Syncon at UC San Diego in San Diego, CA	May 21, 2005
Natural Products, Tilton, NH (Rainer and Armstrong)	July 24-27, 2004
Org. Reactions and Process, Roger Williams Univ., RI (Brummond and King)	July 18-23, 2004
Heterocycles, Regina Salve, RI (Burnett and Davies)	July 4-7, 2004
20th Mona Symposium (Paul Reese) in Kingston, Jamaica	Jan. 7-10, 2004
Syncon at UC Irvine in Irvine, CA	May 21, 2003
225th ACS National Meeting in New Orleans, LA	Mar. 23-27, 2003
10th Symp. on Latest Trends in Organic Synthesis in Gainesville, FL	Oct. 23-26, 2002
National Science Foundation-Workshop at Squam Lake, NH	July 1-4 2002
Syncon at Cal. Tech,	May 21, 2002
37th National Organic Chemistry Symposium in Bozeman, MT	June 10-14, 2001
Syncon at UC Santa Barbara in Santa Barbara, CA	May 21, 2001
37th ACS Western Regional Meeting in Santa Barbara, CA	April 29-31, 2001
221st American Chemical Society in San Diego, CA	April 1-5, 2001
Syncon at UC Los Angeles, Los Angeles CA	May 21, 2000
219th ACS National Meeting in San Francisco, CA	Mar. 26-30, 2000
35th ACS Western Regional Meeting in San Francisco, CA	Oct. 25-28, 2000
Syncon at University of Southern California	May 21, 2000
Natural Products, New England College, NH (Majetich and Webb)	July 24-27, 1999

**Pharmaceutical and Biotech Companies (host)**

Wuxi Pharmaceutical, Shanghai China	Jan 20 2011
Pfizer (Martha A. Ornelas) La Jolla, CA	June 7 2010
Bristol Myers Squibb (Michael Miller) Lawrenceville, NJ	November 19, 2008
Bristol Myers Squibb (Prashant Deshpande) New Brunswick, NJ	November 20, 2008
Exelixis (James W. Leahy) South San Francisco, CA	July 28, 2005
Pfizer (Kim Albizani) San Diego, CA	July 6, 2005
Albany Molecular (Silvina Garcia) Syracuse, NY	June 23, 2005
Amgen (Vinet Patel) Boston, MA	June 21, 2005
Bristol Myers-Squibb (John Macor) Wallingford, CT	Oct. 8, 2003
Procter and Gamble (Benjamin Blass) Cincinnati, OH	Aug. 15, 2003
Merck Sharp and Dome (Robert Armstrong) Rahway, NJ	April 28, 2003
Pfizer (Sammit Bhattacharya) Groton, CT	June 17, 2002
Boehringer-Ingelheim (Vittorio Farina) Danbury, CT	Nov. 15, 2001
Bristol Myers-Squibb (Peter Cheng) Princeton, NJ	May 22, 2000

**COURSES TAUGHT** (Credits)**6a (3)-6b (3)-6c (3): Techniques & Properties in Microscale and Macroscale Synthesis**

Covers basic laboratory techniques along with colligative properties and IR, MS, NMR, UV Spectroscopy.

Visit the websites USERID = chem6a PASSWORD = thinkhard

Visit the websites USERID = chem6b PASSWORD = thinkhard

offered every quarter

**6b and 6c honors Techniques & Properties in Microscale and Macroscale Synthesis**

Undergraduates with > 3.5 GPA work with mentors in the graduate program.

offered when mentors are available

**199 (2-5): Independent Undergraduate Research**

Independent research carried out by undergraduates.

offered every quarter

**223 (2-5): Modern Organic Chemistry**

A seminar course where students present the most recent organic discoveries

offered every quarter

**257 (2-5): Modern Organic Chemistry**

A seminar course where students present their 3rd year proposal

usually spring

**129/229 (3): Synthetic Organic Reactions**

A discussion of basic organic reactions used in the synthesis of natural products.

usually fall

**133/233 (3): Advanced Organic Synthesis**

A discussion of synthetic strategies used for the construction of natural products and pharmaceuticals.

Visit the [secret website](#) USERID = chem233 PASSWORD = enlightenment

usually winter

## **SYNERGISTIC ACTIVITIES**

**Consultant:** [Stern and Kessler Goldstein Fox](#)

[Winston and Strawn LLP](#)

**Collaborator:** [Norbert Reich](#)

**Manager:** Sam & Hunters' Glen, LLC

## CURRENT AND PAST PERSONS SUPERVISED

### Postdoctorate personnel, presently in the Pettus group

Steve Jackson

### Ph. D. Candidates, currently in the Pettus group

Jason Green, Les Burnett, Wenju Bai,

### First and Second Year Graduate students, currently in the Pettus group

Marisa Weaver, Zhengo Feng,

### Undergraduate students, currently in the Pettus group

Eric Brown, Kenny Chang

### Undergraduate students, previously in the Pettus group

Jennifer Chau (USF pharmacy) 2000; Thay Ung (USC) 2001; Andy Rodriguez (UC Irvine) 2001; Simon Meek (Univ. Sheffield) 2001; Jeffery Gardina (UCI) 2002; Brendan O'Boyle (Stanford U) 2003; Kristie Tuttle (Pfizer) 2002; Kevin McQuaid (Columbia University) 2003; José Lopez (UNM College of Pharmacy) 2003; Lily Talevera (Amgen) 2004; Stephanie Mercedes (Amgen) 2005; Dave Freeman (Colorado State) 2006; Jonathan Hernandez (medical school) 2005; Elizabeth Bacon, 2007 (Gilead); Vince DeNatale, 2009 (Princeton); Elysia Cohn 2009 (UCSB), Eduardo Mercado 2011 (UC Berkeley, NSF Predoctoral Fellow),

### Postdoctorate personnel, previously in the Pettus group

Jinsong Zhang (UC Chico), Junhua Wang (Univ. Hong Kong), Liping Pettus (Amgen)

### Other Visiting personnel, previously in the Pettus group

Sandra Jimenez Alonso (University of Canary Islands)

## THESIS COMMITTEES

### Ph.D. students directly supervised by Pettus (10)

10. Wenderski, T. A. "[Diastereoselective Reactions of Cyclohexa-2,5-dienones, Building Blocks for Illudins, and the Synthesis of Berkelic Acid](#)" **2010**, 312 pages; AAT 3428025 [Postdoc with Tan at Sloan Kettering]
9. Wu, K. L. "[Synthesis of gamma-rubromycin and related natural products](#)" **2010**, 250 pages; AAT 3427896 [Postdoc with Stolz at CalTech]
8. Marsini, M. A. "[Synthesis and application of aromatic compounds to the total syntheses of mitorubrinic acid and berkelic acid](#)" **2009**, 439 pages; AAT 3350348. [Postdoc Sorensen at Princeton]
7. Huang, Yaodong, Ph.D., University of California, Santa Barbara, **2007**, 154 pages; AAT 3283678. "[Synthesis of brazilin and the core of an ornate scyphostatin analog.](#)" [Postdoc M. Pirrung at UCR, employed with [Acme Bioscience](#) @ San Francisco]
6. Mejorado, Lupe H., Ph.D., University of California, Santa Barbara, **2006**, 249 pages; AAT 3206435. "[Development and application of nonracemic cyclohexa-2,5-dienones in the total synthesis of \(+\)-epoxysorbicillinol and \(+\)-rishirilide B.](#)" [Postdoc S. Rychnovsky at UCI, employed at [Auspex Pharmaceuticals](#) @ San Diego]
5. Selenski, Carolyn, Ph.D., University of California, Santa Barbara, **2006**, 217 pages; AAT 3245954. "[General method for the construction of type-A proanthocyanidins: Synthesis of racemic-diinsininone.](#)" [Postdoc R. Williams at Colorado State University, employed at Glaxo @ Raleigh Durham]
4. Lindsey, Christopher C., Ph.D., University of California, Santa Barbara, **2005**, 91 pages; AAT 3203099. "[Synthetic approach for the rubromycin family of natural products](#)" [Postdoc J. Debrabander, UT Southwest Medical, employed at Omni Scientific @ Dallas]

3. Hoarau, Christophe, Ph.D., University of California, Santa Barbara, 2005, 210 pages “[Synthetic Approaches For Natural Products isolated from \*Tapirira Guianensis\*](#).” [Postdoc R. D. Little, UCSB, employed with [Vertex](#), then with [Myriad](#) @ Salt Lake]
2. Magdziak, Derek John, Ph.D., University of California, Santa Barbara, 2003, 286 pages; AAT 3103446 “[Development of new oxidation reactions for organic synthesis](#).” [Postdoc Shair, Harvard University, employed with [Vertex](#) in Boston MA]
1. Van De Water, Ryan William, Ph.D., University of California, Santa Barbara, 2003, 279 pages; AAT 3103479 “[Alkylation and dearomatization of resorcinol derivatives: A synthetic route towards scyphostatin](#).” [Postdoc Danishefsky at Sloan Kettering, employed with [Biogen](#) in San Diego CA]

#### M.S. students directly supervised by Pettus (three)

3. Ward, J. 2008 [Chevron, San Francisco]
2. Gowin, K. 2005. [resides in Chicago]
1. Jones, R. M. 2002. [Pfizer in Groton CT]

#### Others Ph.D. students evaluated (over 25)

Fortier, Skye [advisor = [Hayden](#)]

Chung, Daniel [advisor = [Lipshutz](#)]

Boskovic, Zarko A. [Advances in Copper Hydride-Catalyzed Reactions B. Bimetallic Heterogeneous Catalysis C. Tandem Olefin Metathesis/Elimination](#) by V., Ph.D., University of California, Santa Barbara, 2011, 266 pages; AAT 3456097 [advisor = [Lipshutz](#)]

Zhang, Guozhu [Gold/Platinum-Catalyzed Organic Reactions](#) Ph.D., University of California, Santa Barbara, 2011, 367 pages; AAT 3456232 [advisor = [Zhang](#)]

Cha, Jacob Young [Application of dissymmetric 2,5-cyclohexadienones to the total synthesis of isariotin E, isariotin F, TK-57-164A and a fully functionalized analogue of scyphostatin](#) Ph.D., University of California, Santa Barbara, 2010, 244 pages; AAT 3422454 [advisor = [Little](#)]

Russak, Justin, [Synthesis of enantiopure isoxazolidine monomers for the iterative, aqueous synthesis of beta-3-oligopeptides](#) Ph.D., University of California, Santa Barbara, 2010, 279 pages; AAT 3371693 [advisor = [Bode](#)] “”

Unger, John Benjamin, Ph.D., University of California, Santa Barbara, 2009, 279 pages; AAT 3371693 [advisor = [Lipshutz](#)] “I. Copper catalyzed asymmetric transformations II. Copper-in-charcoal catalyzed Ullmann etherification III. Toward the asymmetric syntheses of 3,3'-substituted cyclo-NOBIN ligands”

Lee, Pierce, Ph.D., University of California, Santa Barbara, 2008, 342 pages; AAT 3342054 [advisor = [Lipshutz](#)] “I. Carbon-supported nickel and copper catalysts. II. Copper hydride catalyzed asymmetric 1,4-reductions. III. Designer surfactants for organometallic cross-couplings”

Taft, Benjamin, Ph.D., University of California, Santa Barbara, 2008, 342 pages; AAT 3342054 [advisor = [Lipshutz](#)] “I. Carbon-supported nickel and copper catalysts. II. Copper hydride catalyzed asymmetric 1,4-reductions. III. Designer surfactants for organometallic cross-couplings”

Nihan, Danielle Ph.D., University of California, Santa Barbara, 2008. [advisor = [Lipshutz](#)]



- Petersen, Tue Bruun, Ph.D., University of California, Santa Barbara, 2008, 401 pages. AAT 3297639 [[advisor = Lipshutz](#)] “I. Control of atropisomerism en route to the michellamines. II. Aqueous Suzuki-Miyaura couplings at ambient temperatures. III. Studies in asymmetric copper hydride chemistry.”
- He, Ming, Ph.D., University of California, Santa Barbara, 2007, 456 pages; AAT 3304616 “Enantioselective, N-heterocyclic carbene catalyzed annulations” [[advisor = Bode](#)]
- Sohn, Stephanie Ph.D., University of California, Santa Barbara, 2007, 159 pages; AAT 3291330. [[advisor = Bode](#)] “N-heterocyclic carbene catalyzed redox reactions.”
- Lower, Asher, Ph.D., University of California, Santa Barbara, 2006, 275 pages; AAT 3232978. [[advisor = Lipshutz](#)] “I. Copper hydride catalyzed asymmetric hydrosilylation of ketones. II. The synthesis of coenzyme Q(10) leading to the development of a modernized carboalumination protocol.
- Servesko, Jeffrey Michael, Ph.D., University of California, Santa Barbara, 2006, 406 pages; AAT 3218823. [[advisor = Lipshutz](#)] “Development and applications of asymmetric copper hydride chemistry.”
- Blomgren, Peter, Ph.D., University of California, Santa Barbara, 2006, [[advisor = Lipshutz](#)]
- Chrisman, Will, Ph.D., University of California, Santa Barbara, 2004, 692 pages; AAT 3145714. [[advisor = Lipshutz](#)] “I. Carbonyl blocking using a dioxacyclosilyloctane. II. Stannyldienynes for stereoselective retinoid synthesis.”
- Gerken, James Beall, Ph.D., University of California, Santa Barbara, 2004, 239 pages; AAT 3156355. [[advisor = Little](#)] “Experimental and computational investigations of substituent effects on housane cation radical rearrangement, intramolecular atom transfer reactions of trimethylenemethane diradicals, and kinetic isotope effects on alkylidene carbene insertion reactions.”
- Tomioka, Takashi, Ph.D., University of California, Santa Barbara, 2004, 201 pages; AAT 3120380. [[advisor = Lipshutz](#)] “Development of novel synthetic approaches in nickel-catalyzed cross-coupling reactions.”
- Noson, Kevin, Ph.D., University of California, Santa Barbara, 2003, 301 pages; AAT 3112906. [[advisor = Lipshutz](#)] “I. Recent advances in copper-catalyzed asymmetric transformations. II. Towards the stereoselective assembly and application of cyclo-NOBINS.”
- Fang, Cindy Ching, Ph.D., University of California, Santa Barbara, 2003, 410 pages; AAT 3112888. [[advisor = Bazan](#)] “Structure-reactivity investigations of ethylene polymerization and copolymerization using zwitterionic nickel and palladium complexes, and copolymerization of carbon dioxide and epoxides using salen chromium chloride complexes.
- Pfeiffer, Steven Shane, Ph.D., University of California, Santa Barbara, 2003, 700 pages; AAT 3079960. [[advisor = Lipshutz](#)] “Novel utilization of transition metal organometallic chemistry for the synthesis of natural products.”
- Parrish, Jonathan David Searight, Ph.D., University of California, Santa Barbara, 2003, 183 pages; AAT 3079959 [[advisor = Little](#)] “Novel methods in electron transfer chemistry.”
- Papa, Patrick William, Ph.D., University of California, Santa Barbara, 2002, 232 pages; AAT 3064754. [[advisor = Lipshutz](#)] “I. Development of a novel nitrogen protection group: Tsoc (triisopropylsilyloxy-carbonyl). II. Controlling atropisomerism using a chiral tether in biaryl bond formation. III. Advances in copper hydride chemistry.”

Vivian, Randall Wayne, Ph.D., University of California, Santa Barbara, **2002**, 400 pages; AAT 3056036. [[advisor = Lipshutz](#)] "I. Advances in transition metal catalyzed alkylations and reductions. II. Investigation of palladium(0)-catalyzed cross-coupling of polyenyl borolanes toward all (E) polyenes."

Mollard, Paul, Ph.D., University of California, Santa Barbara, **2001**, 505 pages; AAT 3035373. [[advisor = Lipshutz](#)] "Cyclo-SEM, a new carbonyl protecting group and new methods in nickel(0) cross-coupling reactions."

Carroll, Georgia Law, Ph.D., University of California, Santa Barbara, **2000**, 253 pages; AAT 3034824. [[advisor = Little](#)] "Investigation of the vinylcyclopropane trimethylenemethane diradical and exploration of a route to phorbol analogs."

Sclafani, Joseph Anthony, Ph.D., University of California, Santa Barbara, **2000**, 150 pages; AAT 3015632. [[advisor = Lipshutz](#)] "New methods employing organometallics for large scale synthesis."

Allan, Amy Kim, Ph.D., University of California, Santa Barbara, **1999**, 238 pages; AAT 9956137. [[advisor = Little](#)] "Application of an intramolecular atom transfer reaction of the trimethylenemethane (TMM) diyl towards the synthesis of rudmollin, and, Studies on trimethylenemethane (TMM)-DNA interactions."

Buzard, Daniel John, Ph.D., University of California, Santa Barbara, **1999**, 419 pages; AAT 9986871 [[advisor = Lipshutz](#)] "New methods for organometallic synthesis: Stereoselective ligand construction and transition metal mediated transformations"

#### **Evaluator of others M.S. students (over 3)**

Gallagher, B. (Lipshutz Group) 2009.

Pcion, D. (Lipshutz Group) 2005.

Young K. (Bode Group) 2005.

Reed, A. (Lipshutz Group) 2002.

Hong, J. (Little group) "Application of an intramolecular atom transfer reaction of the trimethylenemethane (TMM) diyl towards the synthesis of rudmollin, and, Studies on trimethylenemethane (TMM)-DNA interactions." 1999

## SERVICE FOR PROFESSION, DEPARTMENT AND UNIVERSITY

### Organic Division

The Undergraduate Laboratory Sequence, Chem 6a, 6b, 6c: Rewrote the lab manuals in 2005 and developed a website for the Organic Laboratory Sequence know as the Chem 6abc series. Standardized the experience by establishing a quiz bank of potential questions and began a program of regimented testing. Oversee TA training for chem 6abc series by require 6a TAs attend the faculty lecture.

Organic Search Committees: Member of the Organic Search Committee ('06 '07) no-hires; Chair of Organic Search Committee ('07 '08) hired [Armen Zakarian](#);

Speakers Hosted: **2011:** [Hien M Nguyen](#) University of Iowa; Steve Peri Eastman Chemical; Matthew Gaunt Cambridge University; Jen Allen Amgen; **2010:** Don Coltart Duke University; David Brook SJSU; Steve Buchwald MIT; Daniel Seidel Rutgers University; Michael Kerr University of Western Ontario; **2009:** Paul Blakemore Oregon State University; Marty Burke University of Illinois; Teshik Yoon University of Wisconsin; Jon Antilla University of South Florida; Andy Evan University of Liverpool; **2008:** Thomas Letka University of Maryland; Christina White University of Illinois; Wei Wang University of New Mexico; Eric Alexanian University of Illinois; Zev Gartner UCB; **2007:** Eric Ferreria Stanford University; Yoshihisa Kobayahi UCSD; Takahiko Akiyama Gakushuin University; Doug Grotjahn SDSU; André Charette University of Ontario; Sherry Chemler University of Buffalo; Greg Dudley Florida State University; **2006:** Lawrence Williams Rutgers; Ohyun Kwon UCLA; **2005:** Jim Leighton Columbia University; Van Martin Pfizer in San Diego; Peter Wutz Pfizer in Michigan; Matt Sigman Utah; Jef Debrabander Southwestern Medical Institute; Patrick Harran Southwestern Medical Institute); **2004:** Shelli McAlpine San Diego State; **2003:** Tomás Hudlicky University of Florida; **2002:** Kip Guy University of California at San Francisco; **2001:** George Majetich University of Georgia; Greg Cook North Dakota State; Matt McIntosh University of Arkansas; **2000:** Bill Parsons Merck Sharp and Dohme; Richard Taylor Notre Dame; Richard Hsung University of Minnesota; Michael Calter University of Rochester; **1999:** Emmanuel Theodorakis UCSD; Norton Peet Aventis; Jim Hendrickson Brandeis; Scott Nelson Univ. Pittsburgh; **1998** None)

### Department

Prepare Tenure Zhang Case to Associate III Oct. 2010-11

Organized and Financed the New Annual Eastman Lecture 2010-11

Prepare Tenure Zakarian Case to Associate III Oct. 2009

Prepare Tenure Zhang Case to Associate III Oct. 2010

Prepared Read De Alaniz Case to Assistant III Oct. 2010

Space Committee ('06 '11). This committee is charged with overseeing the allocation of space through-out the department.

Chair of Graduate Recruitment Committee ('09 '10). This committee was charged reducing a 350K shortfall deficit and recruit the best students possible (23 students enrolled fall 2010). All are still in the program, including several fellowship winners. Almost lost my job over this task. Lesson learned: You can't help folks that don't really want it.

Cabeen Replacement Committee ('10 ). This committee was charged with replacing Ted Cabeen, our resident UNIX expert (Hired Jennifer Mehl).

Curriculum Committee ('04-10). This committee is charged with overseeing the course for both the undergraduate and graduate curriculum.

NMR Committee ('04-10). This committee is charged with overseeing the NMR facility.

Vice Chair of Finance ('06-10). This administrator oversees the allocation of department of funds. Working with the MSO, we spearhead "pay to play" where faculty shoulder recruitment costs from the prior year when accepting a new student into the group.

TA Committee ('08-10). This committee is charged with overseeing the allocation of teaching assistantships to faculty and students in most need and it addresses disciplinary problems that arise with the teaching assistants.

Organic Search Committee ('08). This committee was charged with recruiting two FTE's (Hired Zhang and Read De Alaniz)

Student Awards Committee ('98-'09). This committee selected all students for departmental awards.

Weakliem Replacement Committee ('07). This committee was charged with replacing Paul Weakliem, our resident UNIX expert (Hired Ted Cabeen).

### **University**

[UC CRCC](#): Member of a Multi-campus Research Unit (MRU), appointed by the Office of the President for a four year term to select grant applicants. ('08-'12)

### **K1-12 Outreach**

2010: Parent presentation of "dry ice" to Kindergarden

### **Community**

**Soccer**: Ayso region 9 Soccer Referee U8 ('05-07); Ayso region 9 Coach U8 ('07-08); Ayso region 9 Soccer Referee U12 ('07-10)

**Professional**

*Journal Reviewer:*

Angew. Chemie.;  
J. Am. Chem. Soc.;  
J. Org. Chem.;  
Org. Lett.;  
Synthesis;  
Synlett;  
Tet. Lett.  
Tetrahedron

*Grant Reviewer*

NSF Career Review panel: 2009 and 2010  
NIH Ad Hoc member 2009 and 2011

*Meeting Organizer*

[Division of Organic Chemistry Graduate Research Organizer](#)

*Committees and Boards*

[Publicist for the ISHC](#)

**Other Memberships:**

American Chemical Society (ACS),  
International Society of Heterocyclic Chemistry (ISHC)

> 50 PUBLICATIONS (BOOKS, CHAPTERS, AND ARTICLES)

63. Green, J. C.; Pettus, T. R. R. "Synthesis and Applications of Chroman Spiroketal" In Prep 2011.
62. Cohn, E. P. M. T.; Wu, K-L.; Pettus, T. R. R. Reich, N. O. "A New Strategy for the Detection and Development of Tractable Telomerase Inhibitors" Submitted, 2011.
61. Bai, W. J.; Green, J. C.; Pettus, T. R. R. "Total Syntheses of ent-Heliespirones A & C" Submitted, 2011.
60. Green, J. C.; Alonso, S. J.; Brown, E. R.; Pettus, T. R. R. "Total Synthesis and Repudiation of the Helianane Family" 2011, accepted.
49. Wu, K-L.; Mercado, E. V.; Pettus, T. R. R. "A Convergent Total Synthesis of ( $\pm$ )- $\gamma$ -Rubromycin" *J. Am. Chem. Soc.* 2011, 133, 6114-6117. [59.pdf](#)
58. Jackson, S. K.; Wu, K-L.; Pettus, T. R. R. Chapter 19 "Sequential Reactions Initiated by Oxidative Dearomatization. Biomimetic or Artifact?" in *Biomimetic Organic Synthesis*. [58.pdf](#)
57. Cha, J. Y.; Burnett, L.; Davidson, J. B.; Pettus, T. R. R. "A Strategy for Late-Stage Divergent Syntheses of Scyphostatin Analogs" *J. Org. Chem.* 2011, 76, 1361-1371.
56. Wu, K-L.; Mercado, E. V.; Pettus, T. R. R. "A Convergent Total Synthesis of ( $\pm$ )- $\gamma$ -Rubromycin" *J. Am. Chem. Soc.* 2011, 133, 6114-6117.
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54. Green, J.; Pettus, T. R. R. "An Oxidative Dearomatization Induced [5+2] Cascade Enabling the Efficient Syntheses of  $\alpha$ -Cedrene,  $\alpha$ -Pipitzol, and sec-Cedrenol" *J. Am. Chem. Soc.* 2011, 133, 1603-1608.
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52. Wenderski, T. A.; Hoarau, C.; Mejorado, L.; Pettus, T. R. R. "Dearomatization Applications of I(III) Reagents and Unusual Reactivity Amongst Resorcinol Derived Cyclohexadienones" *Tetrahedron*, 2010, 66, 5873-5883.
51. Cha, J. Y.; Huang, Y.; Pettus, T. R. R. "Total Synthesis of TK-57-164A, Isariotin F, and their Putative Progenitor Isariotin E" *Angew. Chemie., Int. ed.* 2009 48, 9519-9521.
50. Wenderski, T. A.; DeNatale, V.; Pettus, T. R. R. "Synthesis of 2,2-disubstituted Pentalenes and Indenes by a Useful Modification to Nakamura's DMCP [3 + 2] Cycloaddition Protocol" *Synlett*, 2009, 2637-2642. [50.pdf](#)
49. Miller, L. A.; Marsini, M. A.; Pettus, T. R. R. "Chemoselective Reactions of 3-Benzyloxy-1,2-o-Quinone with Organometallic Reagents" 2009, *Org. Lett.* 2009, 11, 1955-1958.
48. Wenderski, T.; Huang, S.; Pettus, T. R. R. "Enantioselective Total Synthesis of All of the Known Chiral Cleroindicins (C-F): Clarification Among Some Assignments and Optical Rotations" *J. Org. Chem.* 2009, 74, 4104-9. [48.pdf](#)
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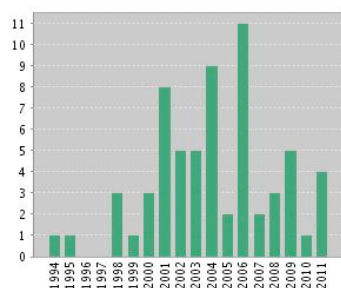
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35. Hoarau, C.; Pettus, T. R. R. "A General Synthesis for Chiral 4-alkyl-4-hydroxycyclohexenones" *Org. Lett.* 8 (13): 2843-2846, **2006**.
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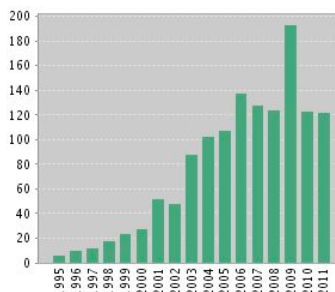


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red = undergraduate research participant



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times cited