

	Carlier Lab News & Events
2 September 2026	The National Institutes of Health (NIH - NIAID) has awarded Principal Investigator Professor Paul Carlier and MPI Dr. Maria Belen Cassera a \$3.76 million grant to develop irresistible blood stage antimalarials.
23-27 August 2026	The Carlier Lab attends ACS2026 in hometown Chicago to learn and contribute to the fantastic science endeavors presented at the conference.
6 August 2026	Congratulations to Dr. Bo Zhou for successfully defending his PhD thesis! We wish him well at The Warren Center for Neuroscience Drug Discovery at Vanderbilt.
6 August 2026	Dr. Paul Carlier and PhD candidate Bo Zhou were featured on Fox 32 Chicago spotlighting their groundbreaking work on a new malaria treatment! (Go to 1:44:02 time point in video below) https://www.youtube.com/live/LX7FNv6LrSE?si=YTTQAYj9lrN1zoPf
13 March 2026	Drs, Shura Mankin, Paul Carlier and Max Svetlov were awarded \$400,908 in grant funding from the NIH/NIAID to identify inhibitors of the Bacterial Peptidyl-tRNA hydrolase.
15 August 2025	Maryam Ghavami's paper on benzo-ring modified analogs of the IspD-targeting antimalarial MMV008138 is available online
9 June 2025	Jessalyn Guo-yee Yam (2M in UIC COM) of the Carlier Group won a \$5K 2025 AQA Carolyn L. Kuckein Student Research Fellowship for her research project, entitled "Exploration of bis(benzyloxy)benzamide-based Antimalarials". Congratulations to Jessalyn and her mentor Dr. Kevin Kunz!
15 May 2025	Bo Zhou gave an invited Young Investigator short talk at the ACS-MEDI-EFMC Frontiers in Medicinal Chemistry Symposium in Chicago.
27 April 2025	Bo Zhou speaks at the 62nd Annual MIKIW (Medicinal Chemistry Meeting in Miniature) conference, held at the University of Kansas
4 April 2025	Paul speaks at the 2025 Midwest AI4D3 Workshop at the University of Chicago, "Ligand-based optimization of irresistible antimalarials". He also chairs a round-table discussion entitled "AI in Drug Discovery: Separating market hype from transformative technologies"

3 April 2025	Paul gives a seminar (Zoom) at Andrews University entitled "Development of new antimalarial medicines"
15 January 2025	Emily Bremers's paper (Cassera Group) on phenotyping and resistance selection of our compound PRC1590 comes out. The lesser known G293V mutation of PfMDR1 confers 7- to 9-fold resistance.
10 January 2025	Congratulations to Jessalyn Yam, a 2M Student at the University of Illinois College of Medicine, for being named a James Scholar. This award is given in recognition for the research she has done in our lab, under the supervision of Dr. Kevin Kunz.
1 November 2024	Congratulations to Bo Zhou, who won an AAPS Poster prize at the annual UIC Retzky College of Pharmacy Research Day!
30 October 2024	Work on our second generation beta-carboline antimalarials appears in ACS Infectious Disease , with a cover!
10 June 2024	We welcome James Franke (Rose-Hulman Chemistry Undergrad) as an undergraduate researcher for the Summer
28 April 2024	Bo receives the 3rd place poster prize (3rd out of 93 posters!) at the 61st Annual MIKIW (Medicinal Chemistry Meeting in Miniature) conference, held at UIC.
9 April 2024	Kevin presents a poster on Mefloquine Target ID at the ACS Division of Medicinal Chemistry and the European Federation of Medicinal Chemistry, in Utrecht, Netherlands
8 April 2024	Paul receives the Hans W. Vahlteich Chair in Medicinal Chemistry from the College of Pharmacy at UIC.
4 April 2024	Paul presents a 3 min "SparkTalk" on UICentre, at the SparkTalks event celebrating the Investiture of UIC's Chancellor, Marie Lynn Miranda
10 March 2024	Bo and Kevin present posters on their antimalarial research at the ACS Meeting in New Orleans!

8 March 2024	Congratulations to Sruthi, who won 3rd Prize in the Poster Competition at the Liberal Arts and Science Drug Discovery Symposium
7 March 2024	Paul and Tom Driver present a talk on the origin and development of UICentre, UIC's drug discovery center, at UIC's Liberal Arts and Sciences Drug Discovery Symposium
6 March 2024	Tsering Tashi (2024 BS Neuroscience, Wartburg College) and Mackenzie Ringer (2024 BS Biochemistry, UIC) join our group as PhD candidates in Pharmaceutical Sciences
18 November 2023	Katia Ortiz-Olan (2024 BS Chemistry, Univ. Puerto Rico Mayagüez) joins our group as a PhD candidate in Chemistry
18 September 2023	The Carlier Lab welcomes Dr. Sruthi Mohan as a postdoc. The Lab is growing!!
2 September 2023	Hanan's paper on functionalized salicylic acid and naphthyl analogs as effective and selective anti-gonococcal agents is out in Scientific Reports!
16 August 2023	The Carlier Lab welcomes 1st Year PSCI Grad students Mackenzie Ringer and Joel Noel-Torres for their first rotation!
8 June 2023	Paul gives a Keynote lecture on his malaria therapeutic research at "VirginiaDrugDiscoveryRx2023: Drug Discovery to Development", the annual meeting of the Virginia Drug Discovery Consortium
5 June 2023	Bo Zhou passes his qualifier in Pharmaceutical Sciences at UIC!
1 June 2023	Adam Shaibat (UIC Chemistry) joins the Carlier Lab as a Summer Undergraduate Research Fellowship (SURF) participant.
10 May 2023	Dr. Jopaul Mathew and Dr. Hanan Almolhim are hooded by Paul in his last VT graduation ceremony. Rudy Chowdhury also receives his M.S. in Chemistry that day.

29-30 April 2023	Rudy Chowdhury and Bo Zhou presented posters on their work at the 60th Annual MIKI(W) conference, held at the University of Minnesota in Minneapolis.
28 April 2023	Congratulations to Dr. Hanan Almolhim, who successfully defended her PhD thesis 🎉🎊👏. Last Virginia Tech PhD from the Carlier lab 😭
26 April 2023	Paul gives an invited Seminar at the Department of Biochemistry & Molecular Genetics, UIC
14 April 2023	Bo Zhou presented a talk on his research at the Med Chem Supergroup at UIC.
3 April 2023	The Carlier Lab welcomes Dr. Kevin Kunz (Univ. Wuppertal) as a new postdoctoral research associate!
3 January 2023	Congratulations to Mr. Rudraneel Roy Chowdhury, who joined the Carlier Lab at UIC, after finishing his non-thesis Master's degree at Virginia Tech.
9 December 2022	Congratulations to Dr. Haibo Li, who successfully defended his PhD thesis!
29 November 2022	The Carlier Lab welcomes its newest member, Ms. Kusha Malpath of the Department of Chemistry, UIC.
14 November 2022	Congratulations to Dr. Jopaul Mathew, who successfully defended his PhD Thesis!
3 October 2022	Hanan Almolhim presents a talk on her research at the Annual Meeting of the Northeast Regional Section of the American Chemical Society in Rochester, NY
22 August 2022	Jopaul Mathew, Haibo Li, and Hanan Almolhim present online posters at the National ACS Meeting in Chicago IL
5 August 2022	Paul Carlier is moving to the University of Illinois at Chicago (UIC) to become Director of UICentre , the Drug Discovery Center of UIC. He will

	be Professor of Pharmaceutical Sciences (primary) and Chemistry (secondary)
24 May 2022	Congratulations to Jopaul Mathew, who won a Poster Talk at VirginiaDrugDiscoveryRx22!
24-25 May 2022	Paul is Conference Chair for VirginiaDrugDiscoveryRx22 : Cardiovascular, Pulmonary, and Metabolic Disease in Richmond, VA. 140 Attendees, 18 lectures, 55 posters!
23 May 2022	Welcome to Lander Comhaire, who won a Fralin Life Sciences Undergraduate Research Fellowship to work in our lab!
6 April 2022	Paul hosts the Virginia Tech Center for Drug Discovery Student Poster Session
18 March 2022	Paul speaks about the Virginia Tech Center for Drug Discovery at the Fralin Biomedical Research Institute Cancer Alliance Meeting
7 March 2022	Paul hosts the Virginia Tech Center for Drug Discovery Faculty Workshop
24 February 2022	Hanan's first author paper on enantiopure tetrahydro-beta-carboline amide antimalarials appears in print!
23 February 2022	Jopaul's first author paper on a new class of orally active antimalarials appears in ACS Med Chem Lett!
24 January 2022	Paul gives a seminar at VT Biochemistry
5 November 2021	Paul hosts the Kingston Retirement Celebration and Symposium at Virginia Tech, recognizing David G. I. Kingston's remarkable 60 year career in Natural Products!
30 August 2021	We receive \$3.7M in funding from the NIH to fund collaborative malaria drug discovery with Prof Cassera (Univ. Georgia) and Dr. Max Totrov (Molsoft LLC)

11 June 2021	Paul assumes Chairmanship of the Executive Committee of the Virginia Drug Discovery Consortium !
26-27 May 2021	Paul serves as Poster Chair for the Online Symposium " VirginiaDrugDiscoveryRx: Coronavirus Therapeutics, Present and Future ". Check out our virtual reality poster session !!
14 May 2021	Congratulations to three UG Researchers past and present: Emily Stacy, Bo Zhou, and Chris Rosser for graduating with the B.S. in Chemistry from Virginia Tech! Congratulations to Anika Tabassum for graduating with her M.S. in Chemistry!
11 May 2021	Congratulations to Kristyna Cagasova, who passed her Ph.D. defense in Chemistry! Woo hoo!!
15 April 2021	Congratulations to UG Researcher Alum Emily Stacy, for her acceptance to the Chemistry Ph.D. program at Cornell University
28 March 2021	We welcome Rudraneel Roy Chowdhury to the group as a 1st year grad!!
17 March 2021	We welcome Dr. Amarraj Chakraborty to the the Group! He comes to us as a newly minted PhD from the Snowden Lab at the University of Alabama
1 March 2021	Paul receives a \$50K Proof-of-concept award from Virginia Tech Intellectual Properties to fund collection of in vitro ADME-Tox and in vivo efficacy and PK on a promising series of antimalarial compounds.
2 November 2020	Paul and Dr. Mohammed Seleem (VetMed) receive an Interdisciplinary Team-building award (\$20K) from the Center of Emerging, Zoophilic, and Arthropod-Borne Pathogens (CeZAP) to optimize their hit compound against multi-drug-resistant <i>Neisseria gonorrhoeae</i> .
11 September 2020	Paul gives a seminar (via Zoom) to the Chemistry Department of George Washington University, entitled "Serendipity and persistence: discovery of an orally-active antimalarial by optimization of the tetrahydro-beta-carboline scaffold"

6 September 2020	Sha and Maryam's paper on B- and C-ring modifications of the antimalarial MMV008138 appears online !
5 August 2020	Sha Ding successfully passes his Ph.D. thesis exam. Congratulations Dr. Ding!
30 June 2020	Sha's paper on modification of the antimalarial MMV665831 appears online in Bioorg. Med. Chem. Lett !
5 June 2020	Carlier Lab reopens!!! (shut down for COVID since April 3)
7 May 2020	Congratulations to Emily Stacy for winning 3rd prize in the VT Chemistry Undergraduate YouTube Poster Session
15 April 2020	Congratulations to Hanan Almolhim for passing her prelim!
9 April 2020	Congratulations to Scot Barry for passing his prelim!
1 February 2020	Profs Mike Klemba and Carlier win a new NIH grant to determine the antimalarial target of mefloquine
15 January 2020	Congratulations to Kristyna Cagasova for winning a Graduate School Doctoral Assistantship!
9 December 2019	Paul presents his work on trifluoromethyl ketone oximes at the 16th International Symposium on Cholinergic Mechanisms, Weizmann Institute of Science, Rehovot, Israel
1 December 2019	We welcome 1st year grad Anika Tabassum to the group!
17 June 2019	Kristyna's paper on tetrahydro-beta-carboline stereochemical assignment appeared on line in Organic & Biomolecular Chemistry .
21-22 May 2019	Sha and Haibo present posters at VirginiaDrugDiscoveryRx
21-22 May 2019	Paul is Program Chair for " VirginiaDrugDiscoveryRx : New Targets, Technologies and Therapeutics for Cancer and Neuroscience" Hotel Roanoke, Roanoke VA

15 April 2019	Congratulations to Mr. Jopaul Mathew, who passed his Ph.D. qualifying exam!
2 April 2019	Kristyna Cagasova spoke on her new method to assign stereochemistry in 1,3-disubstituted Pictet-Spengler adducts at the 2019 ACS National Meeting in Orlando! (ORGN-294)
2 April 2019	Sha Ding spoke on his research on ring-expanded Pictet-Spengler products at the 2019 ACS National Meeting in Orlando! (ORGN-289)
14 March 2019	Paul speaks at the Department of Pharmacology, University of Virginia on "Target Validation for Malaria: Case Studies and New Strategies"
2 November 2018	Paul speaks at SERMACS (Augusta, GA) on a new method to assign relative configuration in tetrahydro-beta-carbolines.
10 September 2018	Paul speaks at the 13th International Conference on Cholinesterases at the University of Hradec Kralove, Czech Republic, on our group's research on resistance-breaking and species-selective acetylcholinesterase inhibitors
1 June 2018	Congratulations to Maryam Ghavami for defending her Ph.D. thesis!
10 April 2018	Congratulations to Alexx Liu for defending her M.S. Thesis!
13 February 2018	Our paper on highly selective pyrazol-4-yl methylcarbamate acetylcholinesterase inhibitors for the malaria mosquito appears online in Pesticide Biochemistry and Physiology .
10 January 2018	Our paper with Jonah Cheung (New York Structural Biology Center, corresponding author) describing two 2.3 Å X-ray structures of G119S <i>Anopheles gambiae</i> acetylcholinesterase appears online in Structure . Coordinates are available in the PDB: 6ARX and 6ARY .
8 January 2018	Robin Ammenhäuser and Kevin Kunz join the Carlier Group for a 3 month internship, on exchange from the University of Wuppertal
15 December 2017	Jopaul Mathew and Haibo Li join the Carlier Group as 1st Year Grads!

8 November 2017	Paul speaks on our malaria research at the "Medicines For All Global Summit" in Richmond VA
26 October 2017	Maryam's paper on new antimalarial drug candidates appeared online http://dx.doi.org/10.1021/acsinfecdis.7b00159
9 October 2017	Joe's paper on diacylhydrazine mosquitocides, appears online, https://doi.org/10.1016/j.pestbp.2017.10.001
23 August 2017	Maryam presents a talk entitled "Exploration of A, C, and D-ring SAR of the IspD-targeting Antimalarial Agent MMV008138" at the 254th National Meeting of the American Chemical Society, Washington D.C.
21 August 2017	Paul presents a talk entitled "Lessons learned in the search for mosquitocidal AChE inhibitors having both target selectivity and resistance-breaking properties at the 254th National Meeting of the American Chemical Society, Washington D.C.
14 June 2017	Paul presents a Lecture for the German Pharmaceutical Society entitled "Discovery and optimization of IspD-targeting antimalarial agents" at the Martin Luther University of Halle-Wittenberg in Germany
30 May 2017	Maryam presents a poster on her work at VirginiaCancerRx
30 May 2017	Paul and colleagues in the Virginia Drug Discovery Consortium present a two-day meeting on cancer drug discovery entitled "VirginiaCancerRx" in Charlottesville, VA
2 May 2017	Congratulations to Dr. Joseph Clements on completing his Ph.D.!
28 April 2017	Congratulations to Paul on winning the 2017 Jimmy Viers Teaching Award from the Department of Chemistry, Virginia Tech
30 May 2017	Maryam presents a poster on her work at VirginiaCancerRx
19 April 2017	Congratulations to Ms. Alexx Liu and Mr. Sha Ding on passing their Ph.D. qualifying exams!
31 January 2017	A research team led by Paul from the <u>Virginia Tech Center for Drug Discovery</u> has received a \$431,126 two-year grant from the National

	Institutes of Health to make improved versions of a promising compound called MMV008138, or 8138 for short.
15 January 2017	Congratulations to Ms. Maryam Ghavami on receiving a Graduate School Doctoral Assistantship award for Spring 2017
24 August 2016	Maryam Ghavami presents a poster (MEDI358) on the mechanism of action of the antimalarial drug mefloquine, and its non-piperidine analogs.
21 August 2016	Paul presents a talk at the Philadelphia ACS meeting (MEDI6) on the development of antimalarial IspD inhibitors.
1 August 2016	Maryam Ghavami's paper on the antimalarial mechanism of action of mefloquine and non-piperidine analogs appears online in <i>Bioorganic and Medicinal Chemistry Letters</i>
9 June 2016	Gary Richoux successfully defends his Ph.D. thesis!
25 May 2016	Paul presents a poster at the Quarterly Consortium for Malaria Drug Discovery in the National Capital Region (Johns Hopkins Bloomberg School of Public Health).
23-24 May 2016	Paul and colleagues host "VirginiaBrainRx", a 2-day meeting on Drug Discovery for for the Brain (Richmond, VA)
18 May 2016	Congratulations to Matt McGuire, who received a Summer Research Award from the Department of Chemistry for Undergraduate Research!
23 March 2016	Congratulations to Gary Richoux who won Bronze Prize (\$300 award) for his presentation in the 32nd Annual Graduate Student Association Research Symposium (Virginia Tech)
18 January 2016	Maryam Ghavami begins a year-long internship at Glaxo Smith Kline, King of Prussia, PA
14 January 2016	Paul speaks on collaborative malaria research with Prof. Cassera at the 5th Annual Virginia Tech Center for Drug Discovery Workshop, Blacksburg, VA.
20 November 2015	Paul speaks on our malaria research at the Department of Medicinal Chemistry, Virginia Commonwealth University, Richmond, VA.
6 November 2015	Maryam wins a "best poster" prize at the Virginia Tech Center for Drug Discovery 3rd Annual Drug Discovery Day Poster Session.

26 October 2015	Paul presents a poster on our malaria therapeutic research at the American Society for Tropical Medicine and Hygiene meeting in Philadelphia, PA.
28 September 2015	Paul gives an invited lecture at the 12th International Conference on Cholinesterases in Elche, Spain.
11 September 2015	Paul speaks on his malaria research at the Department of Chemistry Brock University, St. Catharines, Ontario
8 September 2015	Congratulations to Eugene and Dawn, whose paper on tri- and difluoromethylketones just appeared online .
20 August 2015	Maryam presents a poster in the Medicinal Chemistry Division at the 250th Annual Meeting of the American Chemical Society in Boston, MA.
23 June 2015	I am very sorry to relay the news that Weldon Lam (HKUST MPhil 1996) passed away after a long illness. I remember him as gentle, good-humored, a careful experimentalist with a great positive attitude. He was a husband, father and teacher at Holy Family Canossian College in Hong Kong. He will be greatly missed.
22 June 2015	Congratulations to Ming Ma on the birth of her second daughter Arissa Li!!
5 May 2015	Congratulations to Eugene Camerino, who successfully defended his PhD thesis!
1 May 2015	Alum Dr. Larry D. Williams (PhD '08), Attorney At Law, Associate, presented a seminar at VT entitled "Promoting the Useful Arts: A Brief Overview of Patent Law for Scientists and Engineers"
28 April 2015	Paul's collaborative research with Prof. Belen Cassera (Biochemistry) on new malaria therapeutic drugs was highlighted in the Virginia Tech News .
8 April 2015	Paul delivers a lecture at the Department of Chemistry, Université de Laval, Quebec City, Quebec, entitled "Chemistry in service of global health: small molecule interventions for malaria."
10 March 2015	Alum Prof. Stephanie MacQuarrie (PhD 2005) returns to Virginia Tech to give a lecture entitled "Synthesis and Application of Functionalized Porous Materials."
21 February 2015	Congratulations to Zhong-Ke Yao, whose paper on apicoplast-targeting antimalarial drug candidates appeared online in <i>Bioorganic & Medicinal Chemistry Letters</i> .

23 January 2015	Congratulations to Astha Verma, Maryam Ghavami, and Dawn Wong, whose paper on resistance-breaking isoxazole core methylcarbamates and carboxamides appeared online in <i>Bioorganic & Medicinal Chemistry</i> .
13 January 2015	Paul presents his malaria therapeutic research (collaboration with Prof. Cassera) at the Virginia Tech Center for Drug Discovery Workshop
26 September 2014	Congratulations to Eugene, who won First Prize for his poster at Drug Discovery Day: 2014, the 2nd Annual Student Poster Session of the Virginia Tech Center for Drug Discovery.
26 September 2014	Eugene, and Maryam present posters at Drug Discovery Day: 2014, the 2nd Annual Student Poster Session of the Virginia Tech Center for Drug Discovery. Abstract Book available here
25 September 2014	Congratulations to Larry Williams, Jr (Ph.D 2008), who is now Attorney at Law, Associate, at Wood, Herron, and Evans LLP (Intellectual Property Law), Cincinnati, OH.
23 September 2014	Congratulations to Zhongke and Gary: their <i>Organic Letters</i> paper on enantioselective ring-contraction has appeared online.
5 September 2014	Paul gives a seminar in the Department of Medicinal Chemistry and Pharmacognosy, University of Illinois, Chicago.
13 August 2014	Eugene presents at poster at the ACS Meeting in San Francisco.
1 July 2014	Welcome to Mr. Florian Körber and Mr. Arik Möller. They arrive for a three-month research stay from the Scherckenbeck group at the Department of Chemistry, University of Wuppertal, Germany.
22 April 2014	Congratulations to Ms. Astha Verma, who successfully defended her PhD thesis!
16 April 2014	Congratulations to Dr. Jason Harmon (PhD 2008), who has been promoted to Deputy Chief of the Office of Oil and Gas at the Department of Environmental Protection (West Virginia).
1 April 2014	Congratulations to Dr. Stephanie MacQuarrie (PhD 2005), who has been promoted to Associate Professor with Tenure at Cape Breton University, NS, Canada.
28 March 2014	Welcome to Ms. Tina Keller and Ms. Kristina Holzschneider. They arrive for a three-month research stay from the Scherckenbeck group at the Department of Chemistry, University of Wuppertal, Germany.

20 January 2014	Former group member Prof. Christopher Monceaux presents our collaborative antidepressant drug research (with Mayo Clinic and AstraZeneca) at the Virginia Tech Center for Drug Discovery Workshop
14 November 2013	Paul presents an invited talk on our resistance-breaking malaria mosquitocides at the American Society for Tropical Medicine and Hygiene, Washington D. C.
20 September 2013	Maryam, Zhongke, and Dawn present posters at the 1st Annual VT Drug Discovery Day.
9 September 2013	Paul presents two talks in the ORGN division at the Indianapolis ACS Meeting.
5 September 2013	Ming Gao and Neeraj Patwardhan's article in <i>J. Am. Chem. Soc.</i> on Grignard Racemization appears online!
11 July 2013	We welcome Dr. Dinesh Nath (2013 PhD with Fraser Fleming, Duquesne) to the group!
13 May 2013	Congratulations to Rachel Davis on defending her Chemistry/Biochemistry Honors Undergraduate Thesis!
8 May 2013	Dawn presents a talk on Spontaneous Reactivation of the G119S Mutant of <i>Anopheles gambiae</i> at the 14th International Symposium on Cholinergic Mechanisms in Hangzhou, China. Paul serves as a Session Chair at this meeting.
10 March 2013	Congratulations to Eugene Camerino on winning the Poster Competition (Drug Discovery) at Vector Borne Infectious Disease Symposium (Virginia Tech)!
10 March 2013	Dawn presents a talk on Kinetic Characterization of the G119S mutant of <i>Anopheles gambiae</i> acetylcholinesterase at the Vector Borne Infectious Disease Symposium (Virginia Tech)!
10 December 2012	Congratulations to Eugene Camerino on passing his M. Sc. defense!
5 December 2012	Congratulations to Nipa Deora (PhD 2010) and husband Binoy Alvares on the birth of their daughter Trisha!
20 November 2012	Congratulations to Chris Monceaux (PhD 2010) and wife Tamara on the birth of their daughter Vivian!
12 November 2012	Paul presents a lecture on our malaria research at the American Society of Tropical Health and Medicine (Atlanta)

2 November 2012	Paul presents a seminar on our malaria research at U. C. Riverside (Dept. of Entomology and Institute for Integrative Genome Biology)
1 October 2012	Our <i>PLoS ONE</i> paper on pyrazol-4-yl carbamates to kill "carbamate-resistant" <i>Anopheles gambiae</i> now available online
17 September 2012	Follow-up paper on Anopheles-selective carbamates in <i>Chemico-Biological Interactions</i> now available online
21 August 2012	Congratulations to Astha, who won first prize in the AGRO Division Student poster contest at the ACS Meeting in Philadelphia!
21 August 2012	Paul presents a talk at the 244th National Meeting of the ACS in Philadelphia
10 August 2012	Congratulations to Dr. Qiao-hong Chen on starting her tenure-track Asst. Professor position in Chemistry at Cal State Fresno!
15 July 2012	<i>Bioorganic & Medicinal Chemistry Letters</i> paper on Anopheles gambiae-selective carbamates available online .
5 June 2012	Paul gives a talk, and Dawn presents a poster, at the 11th International Meeting on Cholinesterases, in Kazan, Russia
10 May 2012	Welcome to Maryam Ghavami, a 1st Year Graduate who has officially joined the Group!
7 May 2012	Congratulations to Dr. Ming Ma on starting her new job at PPG (Pittsburgh, PA)!
2 May 2012	Congratulations to Neeraj Patwardhan on his successful PhD defense!
25 April 2012	On World Malaria Day 2012, Paul speaks at the Russell Senate Office Building on our malaria research (event sponsored by Malaria No More)
10 March 2012	Astha wins First Prize in the Poster Competition of the 2nd Virginia Tech Symposium on Vector-Borne Disease "Parasitology, Vector Biology, Vaccine and Drug Discovery." Congratulations to her and her co-authors Qiao-Hong and Dawn from our group!
6 January 2012	Paul presents a talk at the 1st Virginia Tech Workshop for Drug Discovery and Development.
16 December 2011	Welcome to Joseph Clements and Gary Richoux, 1st year graduates who have joined the Group!
5 December 2011	Paul presents a talk at the American Society of Tropical Medicine and Hygiene Meeting entitled " <i>Anopheles gambiae</i> -selective and resistance-

	breaking acetylcholinesterase inhibitors for malaria control" (Philadelphia PA).
2 December 2011	Rachel Davis and Adam Shata present their research at the Fall 2011 Undergraduate Research Symposium (Virginia Tech).
17 November 2011	Dawn Wong presents a talk at the Vector-Borne Disease Mini-Symposium entitled "Enzyme kinetic and toxicological comparisons of wild-type and G119S carbamate-resistant acetylcholinesterase of <i>Anopheles gambiae</i> " (Virginia Tech).
27 October 2011	Dawn Wong presents a talk at the Department of Chemistry, Concord University, entitled " <i>Anopheles gambiae</i> -selective, resistance-breaking acetylcholinesterase inhibitors for malaria control: Progress and Challenges"
26 October 2011	Stephanic Bryson presents a talk at SERMACS, entitled "Reaction of 1,4-benzodiazepin-2-one enolates with sp ² -hybridized carbon electrophiles"
22 September 2011	Neeraj Patwardhan & Ming Gao's communication appears online at <i>Chemistry: A European Journal</i> .
21 September 2011	Our new malaria grant with the Bloomquist group (University of Florida) and Molsoft LLC (San Diego, CA) from the Foundation from the NIH is the subject of a Virginia Tech press release.
30 August 2011	Paul presents a talk at the ACS Meeting in Denver entitled "Resistance-breaking acetylcholinesterase inhibitors for the malaria mosquito, <i>Anopheles gambiae</i> " (AGRO165)
13 June 2011	Congratulations to Derek Craft, who started his new job at Obiter Research LLC!
8 May 2011	Chris's BACE1 inhibitor paper appears online!
5 May 2011	Congratulations to Max Hockenbury on the successful defense of his undergraduate honors thesis!
29 April 2011	Congratulations to Max Hockenbury on winning the Undergraduate Research Award!
22 April 2011	Astha, Dawn Wong, and Qiao-Hong Chen present posters at the Vector-Borne Infectious Disease Research Symposium, Virginia Tech,
21 April 2011	Congratulations to Joshua A. Hartsel on his successful PhD defense!

13 April 2011	Paul presents a talk entitled "Dynamic stereochemistry of axially chiral enolates and enantioenriched Grignard reagents" at the Department of Chemistry, Texas Tech University, Lubbock TX.
1 April 2011	Welcome to Carles Galdeano and Eli Viayna Gaza, visiting Ph.D. students from the lab of Prof. Diego Muñoz-Torrero, University of Barcelona.
30 March 2011	Neeraj presents a talk at the Anaheim ACS Meeting (ORGN-604) on his work with Ming Gao, entitled "Kinetic studies of enantiomerization of a highly enantioenriched Grignard reagent".
23 March 2011	Congratulations to Astha, who won First Prize in the Poster Competition of the 2011 Graduate Student Association (GSA) Annual Research Symposium, Virginia Tech.
17 February 2011	Paul presents a progress report on our Malaria research to the to the External Scientific Advisory Board of the Innovative Vector Control Consortium (IVCC) at Rockefeller University, Manhattan, NY.
16 February 2011	Paul presents a talk entitled "New approaches to human-safe insecticides to reduce malaria transmission" at the Department of Chemistry, St. John's University, Queens, NY.
28 December 2010	Ming Ma's paper (with Jimit Mehta, Larry Williams) on Pd-catalyzed amination routes to tacrine derivatives appears online .
12 December 2010	Congratulations to Chris Monceaux--he will start a tenure-track Assistant Professor position at Radford University in August 2011
9 December 2010	Congratulations to Chris Monceaux on his successful PhD defense!
19 November 2010	Paul presents a talk entitled "New approaches towards human-safe insecticides to reduce malaria transmission" at the Department of Chemistry and Biochemistry, Roanoke College, Roanoke VA.
26 October 2010	Paul presents a talk entitled "Resistance-breaking and species-selective acetylcholinesterase inhibitors as potential human-safe insecticides against the malaria mosquito" at the Annual Grand Challenges in Global Health PI Meeting of the Gates Foundation and FNIH, Seattle WA.
5 October 2010	Paul presents a plenary lecture entitled "Chemistry and Biology: Inseparable Partners for Meeting Challenges in Medicine and Public Health" at the 1st ACC Forum for Interdisciplinary Discovery in Life Science, Virginia Tech
17 September 2010	Paul presents a talk entitled "Development of Species-Selective Acetylcholinesterase Inhibitors to Reduce Malaria Transmission" at the

	Department of Chemistry & Biochemistry, Hampden-Sydney College, Hampden-Sydney, VA.
9 September 2010	Anderson, Danny, and Qiao-Hong's axial-selective deprotonation paper in <i>J. Org. Chem.</i> appears online download
1 September 2010	Congratulations to Nipa Deora on starting at St. John's University (Queens, NY) as a Visiting Assistant Professor of Chemistry
1 September 2010	Congratulations to Chris Monceaux on starting at Roanoke College as a Visiting Assistant Professor of Chemistry
20 August 2010	Congratulations to Jenna Templeton on starting at USANA (Salt Lake City) as a Lab Associate
16 June 2010	Congratulations to Ming Ma and Guoying Li on the birth of their beautiful daughter Malissa
10 May 2010:	Congratulations to Nipa on her successful PhD defense!
24 April 2010	Chris Monceaux is one of four recipients of the 2010 Graduate Research Award. Congratulations!
20 April 2010	Paul presents a talk entitled "Chemistry & Biology: Partners in Reducing Malaria Transmission in SubSaharan Africa" at Café Scientifique, Awful Arthur's Restaurant, Blacksburg, VA.
17 April 2010	Josh Hartsel is named a finalist for the 2010 Round Table "Make-a-Difference," and wins a Scholarship for Graduate Study (College of Science, Virginia Tech). Congratulations, Josh!
24 March 2010	Ming Ma presents a talk "Comparison of Pd-catalyzed amination and nucleophilic aromatic substitution routes to <i>N</i> -alkyltacridines and analogs" at the 239th National Meeting of the American Chemical Society, San Francisco, CA, (ORGN-882).
21 March 2010	Ming Ma presents a poster " <i>Anopheles gambiae</i> -selective, <i>meta</i> -substituted aryl carbamates for control of malaria" at the 239th National Meeting of the American Chemical Society, San Francisco, CA (AGRO-269).
27 January 2010	Nipa's ion-pair separation paper appears online in the <i>Journal of Organic Chemistry</i> download
24 January 2010	An updated version of the Carlier Group Gaussian Manual is now available. Important additions include an expanded section on implicit solvation models, instructions on how to submit calculations with the job queuing system, and a new Appendix 1 "Why your calculation failed" download

12 January 2010	Chris's epoxide opening paper appears online in <i>Organic Letters</i> download
1 January 2010	Congratulations to Anderson and Catherine Sun, the proud parents of a beautiful baby girl, Christine Rianna Sun
18 November 2009	Our Full paper on the stereochemical course of "memory of configuration" retentive trapping of conformationally chiral benzodiazepine enolates appears online in the <i>Journal of the American Chemical Society</i> download
30 October 2009	Paul speaks at the Department of Chemistry, Appalachian State University, on the topic "Development of new chemical agents to control the malaria mosquito"
19 October 2009	Paul speaks at the 5th Annual Grand Challenges in Global Health Meeting of the Gates Foundation in Arusha, Tanzania, on the topic "Vector-specific acetylcholinesterase inhibitors for deployment on insecticide treated nets"
22 September 2009	Paul speaks at the 10th International Conference on Cholinesterase Biology in Šibenik, Croatia, on the topic "Redesign of tacrine to achieve potent and selective inhibition of <i>Anopheles gambiae</i> acetylcholinesterase"
21 September 2009	Josh presents a poster at the 10th International Conference on Cholinesterase Biology in Šibenik, Croatia, on the topic "Discovery of highly species-selective, contact toxic aryl carbamates to control <i>Anopheles gambiae</i> , the mosquito vector of malaria"
19 August 2009	Nipa speaks at the 238th National Meeting of the American Chemical Society, Washington, D.C., on the topic "DFT studies of ion pair separation of benzylic organolithiums: Importance of both explicit and implicit solvation" (ORGN-561).
17 August 2009	Chris speaks at the 238th National Meeting of the American Chemical Society, Washington, D.C., on the topic "Regioselective access to 1,3- and 1,4-diols by opening of trans-1,2,4,5-diepoxy cyclohexane with anilines" (ORGN-282).
16 July 2009	Paul speaks at the Department of Chemistry, University of Florida, Gainesville, on the topic "Asymmetric synthesis via dynamically chiral enolates and metalated nitriles"
15 July 2009	Paul speaks at the Emerging Pathogens Institute of the University of Florida, Gainesville, on the topic "Development of Species-Selective Acetylcholinesterase Inhibitors to Control the Mosquito Vector of Malaria"

22 May 2009	All-day, joint FNIH/NIH Malaria Team meeting held at Virginia Tech, attended by 16 people.
5 May 2009	Paul speaks at the Department of Chemistry, AstraZeneca (Wilmington DE) on the topic "Synthesis of enantiomerically pure quaternary benzodiazepines and mosquito-specific acetylcholinesterase inhibitors."
1 April 2009	NIH grants us a 5-yr \$3.6M grant to continue our collaborative malaria work (<i>press release</i>)
18 February 2009	Paul speaks at the Department of Chemistry, Georgetown University, on the topic "Stopping the clock: trapping a dynamically chiral potassium enolate"
1 February 2009	AstraZeneca licenses antidepressant and signs sponsored research agreement with the Carlier Lab (<i>press release and Roanoke Times</i>)
28 January 2009	Paul speaks at the Department of Chemistry, Michigan State University, on the topic "Development of species-selective acetylcholinesterase inhibitors to control <i>Anopheles gambiae</i> , the mosquito vector of malaria"
21 January 2009	Paul presents our collaborative malaria program to the External Scientific Advisory Council of the Innovative Vector Control Consortium (IVCC), Chester, England, UK.
7 November 2008	Paul speaks at the Department of Chemistry, East Tennessee State University, on the topic "Development of species-selective acetylcholinesterase inhibitors to control <i>Anopheles gambiae</i> , the mosquito vector of malaria"
28 October 2008	Congratulations to Larry on his successful PhD defense!
19-22 October 2008	Paul attends the annual Grand Challenges in Global Health PI Meeting in Bangkok, Thailand.
16 October 2008	Paul gives a seminar in the Department of Chemistry, Hong Kong University of Science and Technology, entitled "Development of species-selective acetylcholinesterase inhibitors to control the mosquito vector of malaria."
29 September 2008	Paul speaks at the Deans' Forum on Infectious Disease (Virginia Tech). Topic: "Development of <i>Anopheles gambiae</i> -selective Acetylcholinesterase Inhibitors for Deployment on Insecticide Treated Nets."
29 September 2008	Josh presents a poster at the Deans' Forum on Infectious Disease (Virginia Tech). Topic: "Highly species-selective acetylcholinesterase

	inhibitors for control of <i>Anopheles gambiae</i> , the mosquito vector of malaria."
29 September 2008	Larry presents a poster at the Deans' Forum on Infectious Disease (Virginia Tech). Topic: "Bump-hole reoptimization of the tacrine pharmacophore achieves selective inhibition of <i>Anopheles gambiae</i> acetylcholinesterase."
29 September 2008	Dawn presents a poster at the Deans' Forum on Infectious Disease (Virginia Tech). Topic: "Towards a Species-Selective Acetylcholinesterase Inhibitor to Control the Mosquito Vector of Malaria, <i>Anopheles gambiae</i> ."
10 September 2008	Congratulations to Dr. Jason Harmon on his successful PhD defense!
21 August 2008	Josh speaks at the 236th National Meeting of the American Chemical Society, Philadelphia, PA (August 17-21, 2008). Topic: "Highly species-selective acetylcholinesterase inhibitors for control of <i>Anopheles gambiae</i> , the mosquito vector of malaria" MEDI-465.
20 August 2008	Chris presents a poster at the 236th National Meeting of the American Chemical Society, Philadelphia, PA (August 17-21, 2008). Topic: "Triazole-linked reduced amide isosteres: A novel approach for the discovery of BACE1 inhibitors" MEDI-300.
19 August 2008	Nipa speaks at the 236th National Meeting of the American Chemical Society, Philadelphia, PA (August 17-21, 2008). Topic: "Computational studies of ion pair separation of organolithium compounds" COMP-131.
17 August 2008	Paul speaks at the 236th National Meeting of the American Chemical Society, Philadelphia, PA (August 17-21, 2008). Topic: "Capture of a transiently non-racemic potassium enolate: Insight into memory of chirality" ORGN-039
9 August 2009	Congratulations to Dawn Wong and Ed Lener on their marriage!
28 June 2009	Congratulations to Stephanie Antolak Bryson and David Bryson on their marriage!
1-2 May 2008	Paul and Dawn Wong attend a workshop at Molsoft LLC (La Jolla, CA) on use of the ICM Pro application to model protein structures and protein-ligand interactions.
29 April 2008	Paul gives a seminar in the Department of Pharmacology, University of California, San Diego, entitled "Discovery of Acetylcholinesterase Inhibitors with High Selectivity □for <i>Anopheles Gambiae</i> , the Mosquito Vector of Malaria."

10 April 2008	Larry speaks at the New Orleans ACS Meeting (April 6 -April 10, 2008) Topic: "Bump-hole reoptimization of the tacrine pharmacophore achieves selective inhibition of <i>Anopheles gambiae</i> acetylcholinesterase" Paper MEDI 331 April 10, 9:40 A.M.
9-10 March 2008	Paul and Jeff Bloomquist (Entomology) attend a Grand Challenge 8 PI Meeting at Wageningen University, Wageningen, Netherlands. Paul gives a project updated entitled "Molecular design of selective anticholinesterases for mosquito control."
28 February 2008	Congratulations to Chris Monceaux for passing the Preliminary Oral Exam.
21 February 2008	Paul gives a seminar at the Department of Chemistry, University of South Florida, entitled "Enantioselective synthesis of quaternary benzodiazepines via memory of chirality."
17 January 2008	Paul gives a seminar at the Department of Chemistry, University of California, Los Angeles, entitled "Transiently non-racemic enolates: synthesis of enantiopure 'quaternary' benzodiazepines□.
29 October 2007	Paul gives a seminar at the Department of Chemistry, University of North Carolina, Charlotte, entitled "Enantioselective synthesis of quaternary benzodiazepines via memory of chirality."
7 October 2007	Paul speaks in Cape Town, South Africa at the 3rd Annual Meeting of the Grand Challenges in Global Health (Gates Foundation/FNIH)
18 September 2007	Congratulations to Dr. Danny Hsu on his successful PhD defense!
13 September 2007	Paul speaks at the Department of Pharmaceutical Chemistry, College of Pharmacy, University of Barcelona (Spain).
7 June 2007	Paul speaks at the Eighth International Symposium on Carbanion Chemistry at the University of Wisconsin, Madison.
6 June 2007	Danny presents a poster at the National Organic Symposium, Duke University, Durham, North Carolina.
19 May 2007	Larry speaks at the 2007 Meeting of the Southeastern Theoretical Chemistry Association, Virginia Tech, Blacksburg, Virginia: Computational and experimental studies of free and enzyme-bound <i>N</i> -alkyltacrine derivatives.
18 May 2007	Danny presents a poster at the 2007 Meeting of the Southeastern Theoretical Chemistry Association, Virginia Tech, Blacksburg, Virginia: Computational Studies on the Mechanism of Memory of Chirality Deprotonation/Alkylation of 1,4-Benzodiazepin-2-ones.

16 May 2007	Paul speaks at the Shanghai Institute of Organic Chemistry, Shanghai, China.
14 May 2007	Paul speaks at the College of Chemistry, Peking University, Beijing, China.
12 May 2007	Congratulations to Carlier Group Graduate Teaching Assistant Award Winners: Josh Hartsel and Larry Williams
11 May 2007	Paul speaks at Shanghai ChemExplorer, an affiliate of Eli Lilly & Co. in Shanghai, China.
10 May 2007	Paul speaks at the IXth International Conference on Cholinesterases, in Suzhou, China.
25 April 2007	Congratulations to Professor Paul Carlier for his promotion to full professor.
12 April 2007	Congratulations to Josh Hartsel for passing the Preliminary Oral Exam.
23 March 2007	Dawn presents a poster at the 2nd Annual Structural Biology Symposium at Virginia Tech.
15 March 2007	Congratulations to Yiqun Zhang on her successful PhD defense!
15 March 2007	Carlier Group Talks at the Chicago ACS Meeting (March 25 - March 29, 2007) Larry Williams: "Computational and experimental studies of free and enzyme-bound <i>N</i> -alkyltacrine derivatives" Paper MEDI 10 March 25, 10:00 A.M.
31 May 2006	Congratulations to Joe DeGuzman on his successful PhD defense!
13 May 2006	Paul received the Cook Research Award from the Virginia Tech Department of Chemistry at the annual commencement ceremony.
26 April 2006	Congratulations Nipa Deora for passing the Preliminary Oral Exam.
21 April 2006	Congratulations to Carlier Group Graduate Teaching Assistant Award Winners: Joe Deguzman, Jason Harmon, and Yiqun Zhang.
22 March 2006	Congratulations Larry Williams for passing the Preliminary Oral Exam.
30 November 2005	Congratulations Dr. Stephanie MacQuarie-Hunter for successfully defending your dissertation. Good luck from all of us!
21 October 2005	Congratulations to Ella and Jason Clement. They are the new parents of Anna Irene Clement.

16 August 2005	Carlier Group Talks at the Washington, D.C. ACS Meeting (August 28 - September 1, 2005) Jason Harmon: IR, NMR, and Computational Studies of Lithiated Phenylacetonitrile in THF/HMPA Paper ORGN 341 August 30, 2:20 P.M. Danny Hsu: Evidence Against a "Double Inversion" Mechanism in Memory of Chirality Alkylations of 1,4-Benzodiazepin-2-ones Paper ORGN 772 September 1, 3:40 P.M. Stephanie MacQuarie-Hunter: Enantioselective Synthesis of Diverse Quaternary 1,4-Benzodiazepin-2,5-diones Paper ORGN 771 September 1, 3:20 P.M. Yiqun Zhang: Studies on the Effect of Chelating Groups on Configurational Stability of Metalated Cyclopropyl nitriles Paper ORGN 773 September 1, 4:00 P.M.
28 June 2005	Grand Challenges in Global Health Initiative award announced. The official announcement of the Grand Challenges in Global Health Initiative: http://www.gatesfoundation.org/GlobalHealth/Announcements/Announcement-050627.htm Details on all the funded Grand Challenges projects (pdf, 121 KB): http://www.gatesfoundation.org/nr/downloads/globalhealth/GCGH_Grants_Backgrounder.pdf. Our project (Prof. J. Bloomquist, lead investigator) is listed under Grand Challenge #8 (p.13) and is entitled "Molecular Design of Selective Anticholinesterases for Mosquito Control."