

## Curriculum Vitae

### Dan Deon, M.Sc.

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### Key Qualifications

- Experienced university and college level chemistry teacher and lab instructor
- Experience teaching online and remote synchronous chemistry lectures & labs at three post-secondary institutions
- Developed Organic Chemistry 1 and 2 Online (CHEM 3101-OL, CHEM 3111-OL) at University of Colorado Colorado Springs (UCCS), Summer 2025
- Completed Teaching Online Certificate Program (TOCP) at UCCS, Fall 2018
- Experienced in chemistry course curriculum development and implementation
- Designed online general chemistry 1 lab (CHEM 1402-OL) at UCCS
- Designed organic chemistry for biochemistry majors lab (CHEM 3103/3113) at UCCS
- Enthusiastic and dynamic teacher and lab instructor, committed to ensuring the success of students
- Medicinal chemist with 14 years of research experience in pharmaceuticals
- Co-inventor of Daclatisvir; drug for treatment hepatitis C
- Highly experienced in teaching English as a Second Language (ESL) students
- Languages: English (mother-tongue); French (fluent)

### Education

Master of Science (Chemistry), University of Ottawa, Ottawa, Ontario, 2001

Thesis: *The Effect of DBU on the Tandem Oxy-Cope / Ene Reaction and Total Synthesis of (+)-Arteannuin M.* Supervisor: Dr. Louis Barriault

Bachelor of Science, Honors (Chemistry), Dalhousie University, Halifax, Nova Scotia, 1999

Thesis: *Selective Benzylations of  $\alpha$ -Methyl-D-Glucopyranoside.* Supervisor: Dr. T.B. Grindley

### Teaching Experience

**University of Colorado Colorado Springs**, Colorado Springs, Colorado, August 2016 – Present

*Lecturer: Organic Chemistry for Chemistry Majors I CHEM 3201*

- Fully responsible for preparation of all course notes, lecturing materials, problem sets / solutions, writing and marking of quizzes and final exam.

*Lecturer: Organic Chemistry for Non-Majors I and II, CHEM 3101, 3111*

- Fully responsible for preparation of all course notes, lecturing materials, problem sets / solutions, writing and marking of quizzes and final exam.

*Lecturer: Organic Chemistry Lab for Non-Majors I and II, CHEM 3102, 3112*

- Fully responsible for preparation of all course notes, lecturing materials, laboratory experiments; writing and marking of quizzes and final exam.

*Lecturer: General Chemistry I and II, CHEM 1401, 1411*

- Fully responsible for preparation of all course notes, lecturing materials, laboratory experiments; writing and marking of quizzes and final exam.

*Lab Instructor: Organic Chemistry for Non-Majors I and II, CHEM 3102, 3112*

- Acted as laboratory instructor to chemistry students, providing demonstration, supervision and marking of lab reports.

*Lab Instructor: Organic Chemistry for Biochemistry Majors I and II, CHEM 3103, 3113*

- Designed new lab geared towards biochemistry majors with emphasis on peptides, carbohydrates and lipids as well as traditional organic chemistry laboratory topics.
- Acted as laboratory instructor to chemistry students, providing demonstration, supervision and marking of lab reports.

*Lab Instructor: Organic Chemistry Lab for Majors I and II, CHEM 3203, 3213*

- Acted as laboratory instructor to chemistry students, providing demonstration, supervision and marking of lab reports.

*Online Lab Instructor / Designer: General Chemistry I, CHEM 1402*

- Designed online general chemistry 1 lab while completing the TOCP at UCCS.
- Course coordinator for online general chemistry I lab.

*Online Lab Instructor: General Chemistry II, CHEM 1412*

- Course coordinator for online general chemistry II lab.

*Instructor: Gateway Program Seminar – Roadmap to Healthcare, GPS-1010*

- Acted as instructor to aspiring nursing students, providing counselling, supervision and grading of weekly journals and research article essays.

*Instructor: Gateway Program Seminar – Meta-Majors STEM, GPS-1010*

- Acted as instructor to aspiring nursing students, providing counselling, supervision and grading of weekly journals and research article essays.

**STRIVE Prep - Westwood**, Denver, Colorado, February-May 2016

*8<sup>th</sup> Grade Science Teacher*

- Responsible for all lesson planning, instruction and grading.

**Dawson College**, Montreal, Quebec, June 2015 - July 2015

*Chemistry Teacher, Remedial Activities for 12<sup>th</sup> Grade Chemistry*

- Taught intensive full semester 12th-grade level chemistry class.
- Fully responsible for preparation of all course notes, lecturing materials, problem sets / solutions; writing and marking of tests and final exam.
- Acted as laboratory instructor to chemistry students; providing demonstration, supervision and marking of lab reports.
- Modified instruction for multi-cultural class with many levels of ability.
- Incorporated technology into lessons with Interactive SMART board<sup>®</sup> and PowerPoint.

**Champlain College**, Saint-Lambert, Quebec, September 2013 - December 2014

*Chemistry Teacher, General Chemistry I and General Chemistry II*

- Responsible for course notes and classroom lectures; writing and marking of quizzes, midterms and assignments.
- Acted as laboratory instructor to chemistry students; providing demonstration, supervision and marking of lab reports.
- Held extra office hours and tutored students in chemistry learning center.
- Demonstrated commitment to continued learning through active participation in professional development opportunities, staff and departmental meetings.
- Instructed and communicated with culturally, racially and linguistically diverse students.
- Developed and maintained a strong rapport with students, faculty, and staff.

- Contributed to final exam preparation and 'open house'.

#### **University of Ottawa, Ottawa, Ontario, 1999 - 2001**

*Teaching Assistant, Organic Chemistry Level 1-3; General Chemistry Level 1-2*

- Responsible for holding short-lecture tutorial sessions, preparing quizzes, proctoring and marking midterms and final exams.
- In charge of demonstrating experimental procedure to students and subsequent supervision in the lab.

#### **Pharmaceutical Industry Experience**

**Array Biopharma**, Boulder, Colorado, November 2015 – February 2016; June 2016 – July 2016

*Research Associate, Medicinal Chemistry*

- Design and synthesis of new chemical compounds with excellent biological profile for treatment of cancer.

**Institute for Research in Immunology and Cancer** (Université de Montreal), Montreal, Quebec, February 2008 - October 2015

*Research Associate, Medicinal Chemistry Core Facility*

- Responsible for design and building of novel molecules for treatment of cardiovascular disease.
- Performed site safety inspections, completed accident reports, acted as a safety and first-aid resource.

**Boehringer Ingelheim Canada Ltd.**, Laval, Quebec, September 2007 - February 2008

*Research Associate I, Medicinal Chemistry*

- Identification of potential new medicines for treatment of hepatitis C.

**Bristol-Myers Squibb**, Candiac, Quebec, August 2001 - June 2007

*Research Scientist I, Discovery Chemistry.*

- Responsible for design and synthesis of active small molecules for treating depression, HIV/AIDS and hepatitis C.
- Co-inventor of marketed drug Daclatasvir.

#### **Publications**

1. Dual-Target Inhibitors of the Folate Pathway Inhibit Intrinsically Trimethoprim-Resistant DfrB Dihydrofolate Reductases. Jacynthe L. Toulouse, Genbin Shi, Claudèle Lemay-St-Denis, Maximilian C. C. J. C. Ebert, **Daniel Deon**, Marc Gagnon, Edward Ruediger, Kévin Saint-Jacques, Delphine Forge, Jean Jacques Vanden Eynde, Anne Marinier, Xinhua Ji, and Joelle N. Pelletier. *ACS (American Chemical Society) Med. Chem. Lett*, 2020, *11*, 2261-2267.
2. Structure-Based Design of Dimeric Bisbenzimidazole Inhibitors to an Emergent Trimethoprim-Resistant Type II Dihydrofolate Reductase Guides the Design of Monomeric Analogues. Toulouse JL, Yachnin BJ, Ruediger EH, **Deon D**, Gagnon M, Saint-Jacques K, Ebert MCCJC, Forge D, Bastien D, Colin DY, Vanden Eynde JJ, Marinier A, Berghuis AM, Pelletier JN. *ACS Omega*. 2019, *4*(6), 10056-10069.
3. Multi-parameter optimization of aza-follow-ups to BI 207524, a thumb pocket 1 HCV NS5B polymerase inhibitor. Part 2: Impact of lipophilicity on promiscuity and in vivo toxicity. Beaulieu, Pierre L.; Bolger, Gordon; **Deon, Dan**; Duplessis, Martin; Fazal, Gulrez; Gagnon, Alexandre; Garneau, Michel; LaPlante, Steven; Stammers, Timothy; Kukolj, George; Duan, Jianmin. *Bioorganic and Medicinal Chemistry Letters*, 2015, *25*(5), 1140-1145.
4. HCV Virus NS5A Replication Complex Inhibitors: The Discovery of Daclatasvir. Belema, M.; V. Nguyen; C. Bachand; **D.H. Deon**; *et al.* *J Med Chem*, 2014, *57*(5), 2013-2032.

5. HCV NS5A Inhibitors Modulate Multiple Aspects of NS5A Expression. D. Qiu; J.A. Lemm; D.R. O'Boyle II; J-H Sun; P.T. Nower; V. Nguyen; L.G. Hamann; **D.H. Deon**; E. Ruediger; N.A. Meanwell; M. Belema; M. Gao; R. A. Fridell. *J. General Virology*, 2011, 92(11), 2502-2511.
6. Total Synthesis of (+)- Arteannuin M Using the Tandem Oxy-Cope/Ene Reaction. L. Barriault and **D.H. Deon** *Org. Lett.*, 2001, 3(12), 1925-1927.

#### Patents

1. **Hepatitis C virus inhibitors.** *United States Patent* 8,093,243, January 10, 2012.
2. **Indole, azaindole and related heterocyclic 4-alkenyl piperidine amides.** *United States Patent*, 7,915,283, March 29, 2011.
3. **Hepatitis C virus inhibitors.** *United States Patent*, 7,759,495, July 20, 2010.
4. **Hepatitis C virus inhibitors.** *United States Patent*, 7,745,636, June 29, 2010.
5. **Hepatitis C virus inhibitors.** *United States Patent*, 7,741,347, June 22, 2010.
6. **Hepatitis C virus inhibitors.** *United States Patent*, 7,704,992, April 27, 2010.
7. **Hepatitis C virus inhibitors.** *United States Patent*, 7,659,270, February 9, 2010.
8. **4-Squaryl piperazine derivatives as antiviral agents.** *United States Patent*, 7,501,419, March 10, 2009.
9. **Tetrahydrocarboline antiviral agents.** *United States Patent*, 7,449,476, November 11, 2008.
10. **Indole, azaindole and related heterocyclic 4-alkenyl piperidine amides.** *United States Patent*, 7,348,337, March 25, 2008.

*A complete list of patents and applications is available upon request.*

#### Awards and Recognitions

- October 2010, Université de Montréal Alliance Award: For development of improved route to new potential medicines
- October 2006, Bristol-Myers Squibb (BMS) Star Award: For recognition of extraordinary efforts in executing the synthesis of a key-intermediate in the hepatitis C program
- March 2006, BMS Star Award: For contributing to the efficient execution of a textbook example of how drug libraries should be done in Medicinal Chemistry at BMS
- December 2002, BMS Star Award: In appreciation of having made major strides toward identifying a novel target in the HIV/AIDS chemistry program
- December 2001, BMS Star Award: Recognition for having prepared novel and potent medicines for treatment of depression
- April 1999, Dalhousie University, John Carstairs Arnell Award: "Most Outstanding Honors Project"
- April 1999, Dalhousie University, John Hamilton Barrett Award: "Excellent Academic Standing in Chemistry"