

**Dr. David J. Leaver**

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**EMPLOYMENT**

- 2015- Current** Assistant Professor of Chemistry in the Department of Biology, Geology and Physical Sciences, Sul Ross State University, Alpine, TX, USA
- 2019** Remote Adjunct Professor of Chemistry in the Department of Physical Sciences, The University of Texas of the Permian Basin, Odessa, TX, USA
- 2014-2015** Visiting Assistant Professor of Chemistry in the Department of Biology, Geology and Physical Sciences, Sul Ross State University, Alpine, TX, USA
- 2013-2014** Post-doctoral research fellow in Chemistry and Biochemistry at Texas Tech University, United States of America (Supervisor: Prof. W. David Nes) in collaboration with Nanjing University, People's Republic of China
- 2012-2013** Post-doctoral research fellow in Medicinal Chemistry at Monash Institute of Pharmaceutical Sciences, Monash University, Australia (Supervisor: Prof. Jonathan Baell)
- 2011-2012** Chemist at Advanced Molecular Technologies (AMT), Australia (Managing director: Dr. Sebastian Marcuccio)
- 2007-2011** Laboratory demonstrator in undergraduate chemistry (1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> year) at La Trobe University, Australia

**EDUCATION**

- 2008-2012** **Doctor of Philosophy (Organic Chemistry)**  
La Trobe University, Melbourne, Victoria, Australia  
Thesis title: "Synthesis and Biological Evaluation of Bivalent Galacto-Conjugates as Inhibitors of Cholera Toxin"  
Supervisors: Dr. Andrew Hughes and Dr. Anastasios Polyzos  
(Conferred October 2012)
- 2004-2008** **Bachelor of Science (First Class Honours)**  
La Trobe University, Melbourne, Victoria, Australia  
Major: Chemistry  
Honours thesis: "Synthesis of Peptidomimetics of Relaxin"  
Honours supervisors: Andrew Hughes and Guillaume Lessene  
Collaborative research project in conjunction with:  
Walter and Eliza Hall Institute of Medical Research (WEHI), Melbourne, Victoria, Australia

## PROFESSIONAL MEMBERSHIP

- American Chemical Society (ACS)
- The Royal Australian Chemical Institute (MRACI CCHEM)
- American Association for the Advancement of Science (AAAS)
- American Oil Chemists' Society (AOCS)
- Texas Academy of Science (TAS)

## SELECTED AWARDS

- 2008** David Kelly Medal (Best 4<sup>th</sup> year student in the School of Molecular Sciences at La Trobe University, Australia)
- 2008** Max O'Connor Honours Year Prize in Chemistry (Best 4<sup>th</sup> year chemistry student in the Department of Chemistry at La Trobe University, Australia)
- 2007** Michael Grant Prize for 3<sup>rd</sup> Year Chemistry (Best 3<sup>rd</sup> year chemistry student in the Department of Chemistry at La Trobe University, Australia)

## SELECTED CONFERENCE PRESENTATIONS

- 2019** Invited Oral Presentation at the American Chemical Society (ACS) Southwest-Rocky Mountain Regional Meeting, El Paso, TX, Nov 13-16.  
Title: "Hit to lead discovery of the benzoylsulfonohydrazide WM-8014 as a potent inhibitor of the histone acetyltransferase KAT6A"
- 2018** Oral Presentation at the American Chemical Society (ACS) 74<sup>th</sup> Southwest Regional Meeting (SWRM), Little Rock, AR; November 7-10.  
Title: "Inducing cellular senescence and arresting tumor growth with KAT6A/B inhibitors."
- 2014** Invited Oral Presentation at the "105<sup>th</sup> AOCs Annual Meeting & Expo", San Antonio, Texas, United States of America  
Title: "Novel Ergosterol Biosynthesis Inhibitors as Anti-Trypanosomal Agents"
- 2011** Oral presentation at the "16<sup>th</sup> European Carbohydrate Symposium (Eurocarb 16)," Sorrento-Naples, Italy  
Title: "Synthesis and Biological Evaluation of Bivalent 1,2,3-Triazole Linked Galactopyranoside Inhibitors of Cholera Toxin"

## SELECTED PUBLICATIONS

1. Daniel L. Priebbenow, **David J. Leaver**, et al. "Discovery of Acylsulfonohydrazide-Derived Inhibitors of the Lysine Acetyltransferase, KAT6A, as Potent Senescence-Inducing Anti-Cancer Agents" *Journal of Medicinal Chemistry*, **2020**, 63, 4655-4684.
2. Wenxu Zhou, Paxtyn M. Fisher, Boden H. Vanderloop, Yun Shen, Huazhong Shi, Adrian J. Maldonado, **David J. Leaver**, W. David Nes "A nematode sterol C4 $\alpha$ -methyltransferase catalyzes a new methylation reaction responsible for sterol diversity" *Journal of Lipid Research*, **2020**, 61, 192-204.
3. Jonathan B. Baell, **David J. Leaver**, et al. "Inhibitors of histone acetyltransferases KAT6A/B induce senescence and arrest tumor growth" *Nature*, **2018**, 560, 253-257.
4. Fabio R. Santori, Pengxiang Huang, Serge A. van de Pavert, Eugene F. Douglass Jr, **David J. Leaver**, et al. "Identification of Natural ROR $\gamma$  Ligands that Regulate the Development of Lymphoid Cells" *Cell Metabolism*, **2015**, 21, 286-297.
5. **David J. Leaver**, Raymond M. Dawson, Jonathan M., White, Anastasios Polyzos and Andrew B. Hughes "Synthesis of 1,2,3-Triazole Linked Galactopyranosides and Evaluation of Cholera Toxin Inhibition" *Organic & Biomolecular Chemistry*, **2011**, 9, 8465-8474.