

Curriculum Vitae



Thomas Munro

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AGE: 40

EDUCATION

2001-2006	Ph.D. (Chemistry)	University of Melbourne
1997-2000	B.Sc. (Hons)	University of Melbourne
1994	Grad. Dip. (Film & TV)	Victorian College of the Arts
1990-1992	B.A.	University of Melbourne

RECENT EMPLOYMENT

2012-	<i>Manuscript Editor, American Journal Experts</i>
2010-2011	<i>Film & TV actor, Starlight Talent Pvt. Ltd., India</i>
2008-2010	<i>Instructor, McLean Hospital/Harvard Medical School</i>
2006-2007	<i>Postdoctoral Research Fellow, McLean Hospital/Harvard Medical School</i>
2000-2006	<i>Chemistry Demonstrator, University of Melbourne</i>

COMMITTEE POSITIONS

2002-2003	<i>President, University of Melbourne Chemistry Postgraduate Society</i>
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SOFTWARE EXPERIENCE

MS Office, Chemdraw, Chem3D, Endnote, Acrobat, Illustrator, Photoshop, LaTeX/BibTeX, Pymol, iNMR, VNMR, Mestrenova, Cambridge Structural Database. Windows, Mac OS X. Some html.

CHEMISTRY SKILLS

- Isolation (inc. HPLC) and structure elucidation of natural products.
- Partial and total synthesis (including Grignard and alkyllithium reagents, organostannanes; distillation and transfer of solvents and reagents under inert atmosphere).
- Setup, processing and interpretation of NMR experiments (inc. decoupling, nOe, DEPT, 2D [COSY, NOESY, HMQC, HMBC]). Extensive experience with Varian spectrometers, brief experience with Bruker. Preparation of spectra as high-quality vector graphics for publication.
- Thorough literature reviews (inc. patents, theses, foreign languages).

BIBLIOMETRICS

Web of Science:

<http://www.researcherid.com/rid/B-2712-2009>

Scopus:

<http://www.scopus.com/authid/detail.url?authorId=16022341600>

Google scholar:

<http://scholar.google.com/citations?hl=en&user=F1mYCPUAAAAJ>

PEER-REVIEWED PUBLICATIONS

Free pre- and postprints:

<http://www.mendeley.com/profiles/thomas-munro1/>

Pubmed:

[http://www.ncbi.nlm.nih.gov/pubmed?term=Munro%2C%20Thomas%20A\[Author%20-%20Full\]](http://www.ncbi.nlm.nih.gov/pubmed?term=Munro%2C%20Thomas%20A[Author%20-%20Full])

ORCID:

<http://orcid.org/0000-0002-3366-7149>

Munro, T. A.; Ho, D. M.; Cohen, B. M., **Salvinorin B methoxymethyl ether**. *Acta Cryst. Sect. E* **2012**, *68*, o3225-o3226.

<http://dx.doi.org/10.1107/S1600536812043449>

Munro, T. A.; Berry, L. M.; Van't Veer, A.; Béguin, C.; Carroll, F. I.; Zhao, Z.; Carlezon, W. A.; Cohen, B. M., **Long-acting κ opioid antagonists nor-BNI, GNTI and JD1c: pharmacokinetics in mice and lipophilicity**. *BMC Pharmacology* **2012**, *12*, 5. <http://dx.doi.org/10.1186/1471-2210-12-5>

Mendelson, J. E.; Coyle, J. R.; Lopez, J. C.; Baggott, M. J.; Flower, K.; Everhart, E. T.; **Munro, T. A.**; Galloway, G. P.; Cohen, B. M., **Lack of effect of sublingual salvinorin A, a naturally occurring kappa opioid, in humans: a placebo-controlled trial**. *Psychopharmacology (Berl)* **2011**, *214*, 933-939. <http://dx.doi.org/10.1007/s00213-010-2103-5>

Hooker, J. M.; **Munro, T. A.**; Béguin, C.; Alexoff, D.; Shea, C.; Xu, Y.; Cohen, B. M., **Salvinorin A and derivatives: Protection from metabolism does not prolong short-term, whole-brain residence**. *Neuropharmacology* **2009**, *57*, 386-391. <http://dx.doi.org/10.1016/j.neuropharm.2009.06.044>

Béguin, C.; Duncan, K. K.; **Munro, T. A.**; Ho, D. M.; Xu, W.; Liu-Chen, L.-Y.; Carlezon, J. W. A.; Cohen, B. M., **Modification of the furan ring of salvinorin A: identification of a selective partial agonist at the κ opioid receptor**.

Bioorg. Med. Chem. **2009**, *17*, 1370-1380.
<http://dx.doi.org/10.1016/j.bmc.2008.12.012>

Munro, T. A.; Duncan, K. K.; Xu, W.; Wang, Y.; Liu-Chen, L.-Y.; Carlezon Jr, W. A.; Cohen, B. M.; Béguin, C., **Standard Protecting Groups Create Potent and Selective κ Opioids: Salvinorin B Alkoxyethyl Ethers.** *Bioorg. Med. Chem.* **2008**, *16*, 1279-1286. <http://dx.doi.org/10.1016/j.bmc.2007.10.067>

Béguin, C.; Potter, D. N.; Dinieri, J. A.; **Munro, T. A.**; Richards, M. R.; Paine, T. A.; Berry, L.; Zhao, Z.; Roth, B. L.; Xu, W.; Liu-Chen, L.-Y.; Carlezon Jr, W. A.; Cohen, B. M., **N-Methylacetamide Analog of Salvinorin A: A Highly Potent and Selective κ -Opioid Receptor Agonist with Oral Efficacy.** *J Pharmacol Exp Ther* **2008**, *324*, 188–195. <http://dx.doi.org/10.1124/jpet.107.129023>.

Munro, T. A.; Duncan, K. K.; Staples, R. J.; Xu, W.; Liu-Chen, L.-Y.; Béguin, C.; Carlezon Jr, W. A.; Cohen, B. M., **8-*epi*-Salvinorin B: crystal structure and affinity at the κ opioid receptor.** *Bellstein J. Org. Chem.* **2007**, *3*, 1.
<http://dx.doi.org/10.1186/1860-5397-3-1>

Munro, T. A. *The Chemistry of Salvia divinorum*. PhD Thesis, University of Melbourne, Australia, **2006**.
<http://eprints.infodiv.unimelb.edu.au/archive/00002327>

Munro, T. A.; Goetchius, G. W.; Roth, B. L.; Vortherms, T. A.; Rizzacasa, M. A., **Autoxidation of Salvinorin A under Basic Conditions.** *Journal of Organic Chemistry* **2005**, *70*, 10057-10061. <http://dx.doi.org/10.1021/jo051813e>

Munro, T. A.; Rizzacasa, M. A.; Roth, B. L.; Toth, B. A.; Yan, F., **Studies toward the Pharmacophore of Salvinorin A, a Potent κ Opioid Receptor Agonist.** *J. Med. Chem.* **2005**, *48*, 345-348.
<http://dx.doi.org/10.1021/jm049438g>

Munro, T. A.; Rizzacasa, M. A., **Salvinorins D-F, New Neoclerodane Diterpenoids from *Salvia divinorum*, and an Improved Method for the Isolation of Salvinorin A.** *J. Nat. Prod.* **2003**, *66*, 703-705.
<http://dx.doi.org/10.1021/np0205699>

Bigham, A. K.; **Munro, T. A.***; Rizzacasa, M. A.; Robins-Browne, R. M., **Divinatorins A-C, New Neoclerodane Diterpenoids from the Controlled Sage *Salvia divinorum*.** *Journal of Natural Products* **2003**, *66*, 1242-1244.
<http://dx.doi.org/10.1021/np030313i>

(*lead author: authors listed alphabetically)

PATENT

Béguin C, Potuzak J.S., **Munro T.A.**, Duncan K.K., Carlezon W.A., Cohen B.M. and Liu Chen L. (2012) **Salvinorin derivatives and uses thereof**, US Patent Application 2012/0010219 A1

<http://www.google.com/patents/US20120010219?printsec=abstract>

PEER REVIEWING

2005-2012 *Journal of Medicinal Chemistry* (7 papers), *Biochemistry*,
Journal of Pharmacy and Pharmacology, *Journal of Natural Products*

ACADEMIC AWARDS

2006 Monica Reum Memorial Prize for best Ph.D. thesis in organic chemistry (University of Melbourne).

2007 Cornforth Medal for best chemistry thesis in Australia (Royal Australian Chemical Institute).

FILM & TELEVISION ROLES

2010-2011 Various TV commercials (inc. Intel, Ten Cricket, Kirloskar).
<http://www.youtube.com/thosmunro>

2011 [Jhansi Ki Rani](#), (TV serial), Hugh Rose.

2011 [Desi Boyz](#) (Feature film), Social Service Guard 1.

2011 [Ra.One](#) (Feature film), GDL member 4.

2012, [Tezz](#) (Feature film), extra.