

Dr Phillip Stephen Grant (he/him)

School of Chemistry, University of Auckland
23 Symonds street, Auckland 1010, New Zealand

phillip.grant@auckland.ac.nz

Nationality: New Zealand; DOB: 19/02/1994

[LinkedIn](#), [ResearchGate](#), [Google Scholar](#)

[ORCID](#): 0000-0001-7077-8756

Qualifications and Experience

Assistant Professor *from October 2023*

School of Chemistry, Chemical Engineering and Biotechnology CCEB
Nanyang Technological University, Singapore

Research fellow *March 2023 – current*

Advisor: Dist Prof. Dame Margaret Brimble, FRS
University of Auckland, New Zealand

Lise Meitner Postdoctoral Fellow *November 2020 – Jan 2023*

Advisor: Uni.-Prof. Dr. Nuno Maulide
University of Vienna, Austria

Research associate *June 2020 to October 2020*

Supervisors: Dist. Prof. Dame Margaret Brimble, FRS; Dr. Daniel Furkert
University of Auckland, New Zealand

PhD (Dean's List) *August 2016 to May 2020*

Supervisors: Dist. Prof. Dame Margaret Brimble, FRS; Dr. Daniel Furkert
University of Auckland, New Zealand

Visiting PhD Student *March to August 2018*

Supervisor: Prof. Varinder Aggarwal, FRS
University of Bristol, United Kingdom

Bachelor of Science with Honours (1st class) *2012 – 2015*

Specialisation: Medicinal Chemistry
4th Year dissertation supervisor: Dist. Prof. Dame Margaret Brimble, FRS
University of Auckland, New Zealand

Awards and Scholarships

71st Lindau Nobel Laureate Meeting (chemistry) delegate, 2022
FWF Lise Meitner Postdoctoral Fellowship, 2020
Dean's List (doctoral), University of Auckland, 2020
Poster Prize, University of Auckland Research Showcase, 2019
Poster Prize, Maurice Wilkins Society Symposium, 2017
University of Auckland Doctoral Scholarship, 2016 – 2020
Summer Research Scholarship, University of Auckland, 2014
University of Auckland Alumni Scholarship, 2012 – 2014

Teaching

Tuakana tutoring program from Māori & Pasifika students; 2015
Stage 1 Organic chemistry tutoring and lab demonstration, University of Auckland; 2019, 2017, 2015
Stage 3 Organic chemistry tutoring and lab demonstration, University of Auckland; 2018

Presentations

1. 'Synthetic studies towards leonuketol' **Grant, P. S.**, Furkert, D. P., Brimble, M. A.; *Poster*. Maurice Wilkins Centre Symposium, Dunedin, NZ, 2016.
2. 'Molecular Probes of the Cannabinoid-1 GPCR' **Grant, P. S.**, Brimble, M. A., Glass, M., Furkert, D. P; *Talk presentation*; Brain & Technology: A Catalyst for Collaboration" Symposium, Auckland, NZ, 2017.
3. 'Synthetic studies towards leonuketol' **Grant, P. S.**, Furkert, D. P., Brimble, M. A.; *Poster*. Bristol University Chemistry Symposium, Bristol, UK, 2018.
4. 'Synthetic studies towards leonuketol' **Grant, P. S.**, Furkert, D. P., Brimble, M. A.; *Poster*. Oxford Synthesis Summer Conference, Oxford, UK, 2018.
5. 'Studies towards the divergent synthesis of leonuketol, atisanes and *ent*-kauranes' Natural Products' **Grant, P. S.**, Drummond, G. J., Furkert, D. P., Brimble, M. A.; *Poster*. University of Auckland Research Showcase, Auckland, NZ, 2019.
6. 'Studies towards the divergent synthesis of leonuketol, atisanes and *ent*-kauranes' Natural Products' **Grant, P. S.**, Drummond, G. J., Furkert, D. P., Brimble, M. A.; *Poster*. 26th International symposium: Synthesis in organic chemistry, Cambridge, UK, 2019
7. 'The development of a strategy for the synthesis of leonuketol' **Grant, P. S.**, Furkert, D. P., Brimble, M. A. School of Chemical Science Summer Seminar Series. Auckland, NZ. 2020
8. 'The total synthesis of (±)-leonuketol' **Grant, P. S.**, Furkert, D. P., Brimble, M. A. Synthesis Workshop. *Youtube Virtual talk*. 2020. [Link](#)
9. 'Direct stereodivergent olefination of carbonyl compounds with thiouronium ylides'. **Grant, P. S.**[†], Merad, J. M.[†], Stopka, T.[†], Meyrelles, R., Sabbatani, J., Preinfalk, A., Matyasovsky, J., Maryasin, B., Gonzalez, L., Maulide, N.*; *Poster*, International 28th International Society of Heterocyclic Chemistry Congress, Santa Barbara, USA, 2022.

Publications

1. 'Affinity and efficacy studies of tetrahydrocannabinolic acid A at cannabinoid receptor types one and two' McPartland, J. M., McDonald, C., Yong, M., **Grant, P. S.**, Furkert, D. P., Glass, M. *Cannabis and Cannabinoid Research*. **2017**, 2(1), 87 – 95. [doi](#)

2. 'Synthesis of the bicyclic lactone core of leonuketol, enabled by a telescoped Diels–Alder reaction sequence'. **Grant, P. S.**, Brimble, M. A., Furkert, D. P. *Chem. Asian. J.* **2019**, *14*, 1128–1135. [doi](#)

- Part of special issue 'Chemistry in New Zealand'

3. 'Catalyst-Free Deaminative Functionalizations of Primary Amines by Photoinduced Single-Electron Transfer'. Wu, J.[†], **Grant, P. S.**[†], Li, X., Noble, A., Aggarwal, V. K.* *Angew. Chem. Int. Ed.* **2019**, *58*, 5697–5701. [†]equal contribution; [doi](#)

- Highly cited paper ranking in the top 1% in the field of chemistry according to Web of Science
- Top 25 most accessed papers in *Angewandte Chemie* in 2019

4. 'Divalent Cannabinoid-1 Receptor Ligands: Linker Attachment Survey of SR141716A Enables Discovery of a CB1R Fluorescent Probe'. **Grant, P. S.**, Kahlcke, N., Govindpani, K., Hunter, M., McDonald, C., Brimble, M. A., Furkert, D. P.* *Bioorg. Med. Chem. Lett.*, **2019**, *29*, 126644. [doi](#)

5. 'Total Synthesis of (±)-Leonuketol', **Grant, P. S.**, Furkert, D. P.*, Brimble, M. A.* *Org. Lett.* **2020**, *22*, 8735–8749. [doi](#)

- Top 20 most downloaded articles in OL in the last 12 months, as of 3/10/2021
- Highlighted by *Synfacts* [*Synfacts*. **2021**, *17* (1), 3]
- Highlighted by *Organic Chemistry Portal* ([link](#))
- Virtual talk at Synthesis Workshop ([link](#))
- Highlighted by ChemistryViews ([link](#))
- Highlighted by Simplifying Synthesis ([link](#))

6. 'ent-Atisane diterpenoids: isolation, structure and bioactivity'. Drummond, G. J., **Grant, P. S.**, Brimble, M. A.* *Nat. Prod. Rep.* **2021**, *38*, 330–345. [doi](#)

7. 'seco-Labdanes: A Study of Terpenoid Structural Diversity Resulting from Biosynthetic C–C Bond Cleavage'. **Grant, P. S.**, Brimble, M. A.* *Chem. Eur. J.* **2021**, *27*, 6367–6389. [doi](#)

8. 'Direct stereodivergent olefination of carbonyl compounds with thiouronium ylides', Merad, J. M. [†], **Grant, P. S.**[†], Stopka, T.[†], Meyrelles, R., Sabbatani, J., Preinfalk, A., Matyasovsky, J., Maryasin, B., Gonzalez, L., Maulide, N.* *J. Am. Chem. Soc.* **2022**, *144* (12), 12535–12543. [†]equal contribution. [doi](#)

- Second most read article in *JACS* in August 2022
- Highlighted by *Organic Process Research and Development* [*Org. Process Res. Dev.* **2022**, *26* (8), 2179–2189]
- Highlighted by 7 news outlets and 1 blog ([link](#))

9. 'Azide-Enolate Cycloaddition-Rearrangement Enables Direct α -Amination of Amides and Enelactam Synthesis from Esters'. Bell-Tyrer, J., Hume, P. A., **Grant, P. S.**, Brimble, M. A., Furkert, D. P.* *Chem. Eur. J.* **2023**, *29*, e202300261. [doi](#)

10. 'Biomimetic Cationic Cyclopropanation Enables an Efficient Chemoenzymatic Synthesis of 6,8-Cycloeudesmanes'. **Grant, P. S.**[†], Meyrelles, R.[†], Gajsek, O., Niederacher, G., Maryasin, B., Maulide, N.* *J. Am. Chem. Soc.*, **2023**, *145*, 5855–5863. [†]equal contribution. [doi](#)

11. 'Total Synthesis of Spiroketal Alkaloids Lycibarbarines A–C'. Young, E.G., **Grant, P. S.**, Furkert, D. P., Brimble, M. A. *Org. Lett.*, *25*, 2895–2900. [doi](#).