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Chemical tools to modulate endocannabinoid biosynthesis

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Citation

Deng, H. (2017, April 11). *Chemical tools to modulate endocannabinoid biosynthesis*. Retrieved from <https://hdl.handle.net/1887/47846>

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Author: Deng, Hui

Title: Chemical tools to modulate endocannabinoid biosynthesis

Issue Date: 2017-04-11

List of publications

1. **Triazole ureas act as diacylglycerol lipase inhibitors and prevent fasting-induced refeeding**
H. Deng, S. Kooijman, A. M.C.H. van den Nieuwendijk, D. Ogasawara, T. van der Wel, F. van Dalen, M. P. Baggelaar, F. J. Janssen, R. J.B.H.N. van den Berg, H. den Dulk, B. F. Cravatt, H. S. Overkleeft, P. C.N. Rensen, M. van der Stelt, *Journal of Medicinal Chemistry*, **2017**, 60, 428-440.
2. **Rapid and profound rewiring of brain lipid signaling networks by acute diacylglycerol lipase inhibition**
D. Ogasawara¹, H. Deng¹ (co-first author), A. Viader, M. P. Baggelaar, A. C. Breman, H. den D., A. M.C.H. van den Nieuwendijk, M. Soethoudt, T. van der Wel, J. Zhou, H. S. Overkleeft, M. Sanchez-Alavez, S. M., W. Nguyen, B. Conti, X.J. Liu, Y. Chen, Q.S. Liu, B. F. Cravat, M. van der Stelt; *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 26-33.
3. **Chiral disubstituted piperidinyl ureas: a class of dual diacylglycerol lipase- α and ABHD6 inhibitors**
H. Deng, T. van der Wel, R. J. B. H. N. van den Berg, A. M.C.H. van den Nieuwendijk, F. J. Janssen, M. P. Baggelaar, H. S. Overkleeft, M. van der Stelt; *manuscript submitted*.
4. **Activity-based protein profiling reveals the mitochondrial localization of monoacylglycerol lipase**
H. Deng, D. M. van Elsland, A. C. M. van Esbroeck, T. van der Wel, H. den Dulk, H. S. Overkleeft, S. I. van Kasteren, M. van der Stelt; *manuscript in preparation*.
5. **A natural substrate-based fluorescence assay for inhibitor screening on diacylglycerol lipase alpha**
T. van der Wel, F. J. Janssen, M. P. Baggelaar, H. Deng, H. den Dulk, H. S. Overkleeft, M. van der Stelt; *Journal of Lipid Research* 2015, 56, 927.
6. **Highly selective, reversible inhibitor identified by comparative chemoproteomics modulates diacylglycerol lipase activity in neurons**
M. P Baggelaar, P. J. P. Chameau, V. Kantae, J. Hummel, K. L. Hsu, F. Janssen, T. van der Wel, M. Soethoudt, H. Deng, H. den Dulk, M. Allara, B. I. Florea, V. Di Marzo, W. J. Wadman., C. G. Kruse, H. S. Overkleeft, T. Hankemeier, T. R. Werkman, B. F. Cravatt, M. van der Stelt, *Journal of the American Chemical Society* **2015**, 137, 8851-8857.
7. **Discovery of glycine sulfonamides as dual inhibitors of sn-1-diacylglycerol lipase alpha and alpha/beta-hydrolase domain 6**
F. J. Janssen, H. Deng, M. P. Baggelaar, M. Allara, T. van der Wel, H. den Dulk, A. Ligresti, A. C. M. van Esbroeck, R. McGuire, V. Di Marzo, H. S. Overkleeft, M. van der Stelt, *Journal of Medicinal Chemistry*. **2014**, 57, 6610-6622.
8. **Design, synthesis and in vitro antifungal evaluation of 1,3,5-trisubstituted-2-pyrazoline derivatives**
H. Deng, Z. Y. Yu, G.Y. Shi, M.J. Chen, K. Tao, T. P. Hou, *Chemical Biology & Drug Design* **2012**, 79, 279-289.

- 9. Isolation of an antifungal compound from *Anaphalis sinica* Hance**
L. Y. Yang, Z. Y. Yu, X. G Zhang, J. Y. Fan, M.J. Chen, H. Deng, T. P. Hou, K. Tao, *Asian Journal of Chemistry*. **2013**, 25 446-468.
- 10. Cannabinoid CB₂ receptor ligand profiling reveals biased signalling and off-target activity**
M. Soethoudt, U. Grether, J. Fingerle, T. W. Grim, F. Fezza, L. de Petrocellis, C. Ullmer, B. Rothenhäusler, C. Perret, N. van Gils, D. Finlay, C. MacDonald, A. Chicca, M. D. Gens, J. Stuart, H. de Vries, N. Mastrangelo, L. Z. Xia, G. Alachouzos, M. P. Baggelaar, A. Martella, E. D. Mock, H. Deng, L. H. Heitman, M. Connor, V. Di Marzo, J. Gertsch, A. H. Lichtman, M. Maccarrone, P. Pacher, M. Glass, M. van der Stelt, *Nature Communications*, **2017**, 8, 13958.
- 11. BIA 10-2474 is a non-selective FAAH inhibitor that disrupts lipid metabolism**
A. C.M. van Esbroeck¹, A. P.A. Janssen¹, A. B. Cognetta², D. Ogasawara², G. Shpak, M. van der Kroeg, V. Kantae, M. P. Baggelaar, F. M.S. de Vrij, H. Deng, M. Allarà, F. Fezza, Z.M. Lin, T. van der Wel, M. Soethoudt, E. D. Mock, H. den Dulk, I. L. Baak, B. I. Florea, G. Hendriks, L. De Petrocellis, H. S. Overkleeft, T. Hankemeier, B. F. Cravatt, C. I. De Zeeuw, V. Di Marzo, M. Maccarrone, S. A. Kushner, M. van der Stelt; *manuscript submitted*.
- 12. Discovery of in vivo active and selective sn-1 diacylglycerol lipase α inhibitors**
A.P.A. Janssen, F. J. Janssen, M. P. Baggelaar, A. C. M. van Esbroeck, H. den Dulk, H. Deng, E. van Doornmalen, N. Smits, A. Morrison, E. Russell, J. Schulz, L. Brown, J. Hewitt, F. Macleod, J. Robinson, P. P. Geurink, H. Ovaa, B. I. Florea, H. S. Overkleeft, S. P. I. Mcelroy, C. A. A. van Boeckel, H. Rutjes, P. S. Jones, M. van der Stelt; *manuscript in preparation*.