

Cancer Lipids and Metabolism

Publications ~ = Inter 25 (19.23%), * = Intra 57 (43.85%), M = Multi 43 (33.08%)

1. Ahmad R, Al-Roub A, Kochumon S, Akther N, Thomas R, Kumari M, Koshy MS, Tiss A, Hannun YA, Tuomilehto J, Sindhu S, Rosen ED. (2018). The Synergy between Palmitate and TNF- α for CCL2 Production Is Dependent on the TRIF/IRF3 Pathway: Implications for Metabolic Inflammation. *J Immunol* 200(10), 3599-3611. PMCID: PMC5937214.PMID: 29632147 Impact Factor:4.856
- ~ 2. Bogdan D, Falcone J, Kanjiya MP, Park SH, Carbonetti G, Studholme K, Gomez M, Lu Y, Elmes MW, Smietalo N, Yan S, Ojima I, Puopolo M, Kaczocha M. (2018). Fatty acid-binding protein 5 controls microsomal prostaglandin E synthase 1 (mPGES-1) induction during inflammation. *J Biol Chem* 293(14), 5295-5306. PMCID: PMC5892576.PMID: 29440395 Impact Factor:4.125
- * 3. Bogenhagen DF, Ostermeyer-Fay AG, Haley JD, Garcia-Diaz M. (2018). Kinetics and Mechanism of Mammalian Mitochondrial Ribosome Assembly. *Cell Rep* 22(7), 1935-1944. PMCID: PMC5855118.PMID: 29444443 Impact Factor:8.282
- * 4. Coant N, García-Barros M, Zhang Q, Obeid LM, Hannun YA. (2018). AKT as a key target for growth promoting functions of neutral ceramidase in colon cancer cells. *Oncogene* 37(28), 3852-3863. PMCID: PMC6041258.PMID: 29662189 Impact Factor:7.519
5. Fernandes CM, Goldman GH, Del Poeta M. (2018). Biological Roles Played by Sphingolipids in Dimorphic and Filamentous Fungi. *MBio* 9(3). PMCID: PMC5954224.PMID: 29764947 Impact Factor:
6. Ganesan R, Henkels KM, Wrenshall LE, Kanaho Y, Paolo GD, Frohman MA, Gomez-Cambroner J. (2018). Oxidized LDL phagocytosis during foam cell formation in atherosclerotic plaques relies on a PLD2-CD36 functional interdependence. *J Leukoc Biol* 103(5), 867-883. PMCID: PMC5951301.PMID: 29656494 Impact Factor:4.018
- ~ 7. Haj-Dahmane S, Shen RY, Elmes MW, Studholme K, Kanjiya MP, Bogdan D, Thanos PK, Miyauchi JT, Tsirka SE, Deutsch DG, Kaczocha M. (2018). Fatty-acid-binding protein 5 controls retrograde endocannabinoid signaling at central glutamate synapses. *Proc Natl Acad Sci U S A* 115(13), 3482-3487. PMCID: PMC5879704.PMID: 29531087 Impact Factor:
- ~ 8. Lazzarini C, Haranahalli K, Rieger R, Ananthula HK, Desai PB, Ashbaugh A, Linke MJ, Cushion MT, Ruzsicska B, Haley J, Ojima I, Del Poeta M. (2018). Acylhydrazones as Antifungal Agents Targeting the Synthesis of Fungal Sphingolipids. *Antimicrob Agents Chemother* 62(5). PMCID: PMC5923120.PMID: 29507066 Impact Factor:
- * 9. Li F, Xu R, Low BE, Lin CL, Garcia-Barros M, Schrandt J, Mileva I, Snider A, Luo CK, Jiang XC, Li MS, Hannun YA, Obeid LM, Wiles MV, Mao C. (2018). Alkaline ceramidase 2 is essential for the homeostasis of plasma sphingoid bases and their phosphates. *FASEB J* 32(6), 3058-3069. PMCID: PMC5956249.PMID: 29401619 Impact Factor:

- ~ 10. Luk J, Lu Y, Ackermann A, Peng X, Bogdan D, Puopolo M, Komatsu DE, Tong S, Ojima I, Rebecchi MJ, Kaczocha M. (2018). Contribution of diacylglycerol lipase β to pain after surgery. *J Pain Res* 11, 473-482. PMCID: PMC5842774.PMID: 29551907 Impact Factor:
11. Moorthi S, Burns TA, Yu GQ, Luberto C. (2018). Bcr-Abl regulation of sphingomyelin synthase 1 reveals a novel oncogenic-driven mechanism of protein up-regulation. *FASEB J* 32(8), 4270-4283. PMCID: PMC6044059.PMID: 29533737 Impact Factor:
- ~* 12. Mor V, Rella A, Farnoud AM, Singh A, Munshi M, Bryan A, Naseem S, Konopka JB, Ojima I, Bullesbach E, Ashbaugh A, Linke MJ, Cushion M, Collins M, Ananthula HK, Sallans L, Desai PB, Wiederhold NP, Fothergill AW, Kirkpatrick WR, Patterson T, Wong LH, Sinha S, Giaever G, Nislow C, Flaherty P, Pan X, Cesar GV, de Melo Tavares P, Frases S, Miranda K, Rodrigues ML, Luberto C, Nimrichter L, Del Poeta M. (2018). Erratum for Mor et al., "Identification of a New Class of Antifungals Targeting the Synthesis of Fungal Sphingolipids". *MBio* 9(2). PMCID: PMC5850322.PMID: 29535196 Impact Factor:
- * 13. Munshi MA, Gardin JM, Singh A, Luberto C, Rieger R, Bouklas T, Fries BC, Del Poeta M. (2018). The Role of Ceramide Synthases in the Pathogenicity of *Cryptococcus neoformans*. *Cell Rep* 22(6), 1392-1400. PMCID: PMC5839121.PMID: 29425496 Impact Factor:8.282
- * 14. Newcomb B, Rhein C, Mileva I, Ahmad R, Clarke CJ, Snider J, Obeid LM, Hannun YA. (2018). Identification of an acid sphingomyelinase ceramide kinase pathway in the regulation of the chemokine CCL5. *J Lipid Res* 59(7), 1219-1229. PMCID: PMC6027921.PMID: 29724781 Impact Factor:4.81
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16. Rego A, Cooper KF, Snider J, Hannun YA, Costa V, Côrte-Real M, Chaves SR. (2018). Acetic acid induces Sch9p-dependent translocation of Isc1p from the endoplasmic reticulum into mitochondria. *Biochim Biophys Acta* 1863(6), 576-583. PMCID: PMC5899942.PMID: 29496584 Impact Factor:4.66
- * 17. Schwartz NU, Linzer RW, Truman JP, Gurevich M, **Hannun YA**, Senkal CE, Obeid LM. (2018). Decreased ceramide underlies mitochondrial dysfunction in Charcot-Marie-Tooth 2F. *FASEB J* 32(3), 1716-1728. PMCID: PMC5892732.PMID: 29133339 Impact Factor:
18. Shi XX, Huang YJ, Begum MA, Zhu MF, Li FQ, Zhang MJ, Zhou WW, Mao C, Zhu ZR. (2018). A neutral ceramidase, NlnCDase, is involved in the stress responses of brown planthopper, *Nilaparvata lugens* (Stål). *Sci Rep* 8(1), 1130. PMCID: PMC5773612.PMID: 29348442 Impact Factor:4.259
- * 19. Snider JM, Snider AJ, Obeid LM, Luberto C, Hannun YA. (2018). Probing de novo sphingolipid metabolism in mammalian cells utilizing mass spectrometry. *J Lipid Res* 59(6), 1046-1057. PMCID: PMC5983394.PMID: 29610123 Impact Factor:4.81

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- * 22. **Airola MV**, Shanbhogue P, Shamseddine AA, Guja KE, Senkal CE, Maini R, Bartke N, Wu BX, **Obeid LM**, **Garcia-Diaz M**, **Hannun YA**. (2017). Structure of human nSMase2 reveals an interdomain allosteric activation mechanism for ceramide generation. *Proc Natl Acad Sci U S A* 114(28), E5549-E5558. PMCID: PMC5514751.PMID: 28652336 Impact Factor:

- * 23. Carroll BL, Bonica J, Shamseddine AA, Hannun YA, Obeid LM. (2018). A role for caspase-2 in sphingosine kinase 1 proteolysis in response to doxorubicin in breast cancer cells - implications for the CHK1-suppressed pathway. *FEBS Open Bio* 8(1), 27-40. PMCID: PMC5757171.PMID: 29321954 Impact Factor:

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- 25. Galbavy W, Lu Y, Kaczocha M, Puopolo M, Liu L, Rebecchi MJ. (2017). Transcriptomic evidence of a para-inflammatory state in the middle aged lumbar spinal cord. *Immun Ageing* 14, 9. PMCID: PMC5390443.PMID: 28413428 Impact Factor:

- 26. Raj S, Nazemidashtarjandi S, Kim J, Joffe L, Zhang X, Singh A, Mor V, Desmarini D, Djordjevic J, Raleigh DP, Rodrigues ML, London E, Del Poeta M, Farnoud AM. (2017). Changes in glucosylceramide structure affect virulence and membrane biophysical properties of *Cryptococcus neoformans*. *Biochim Biophys Acta* 1859(11), 2224-2233. PMCID: PMC5637408.PMID: 28865794 Impact Factor:4.66

- 27. Rizzo J, Colombo AC, Zamith-Miranda D, Silva VKA, Allegood JC, Casadevall A, Del Poeta M, Nosanchuk JD, Kronstad JW, Rodrigues ML. (2018). The putative flippase Apt1 is required for intracellular membrane architecture and biosynthesis of polysaccharide and lipids in *Cryptococcus neoformans*. *Biochim Biophys Acta* 1865(3), 532-541. PMCID: PMC6052768.PMID: 29291962 Impact Factor:4.66

- 28. Roth E, Frohman MA. (2018). Proliferative and metastatic roles for Phospholipase D in mouse models of cancer. *Adv Biol Regul* 67, 134-140. PMCID: PMC5910061.PMID: 29154090 Impact Factor:

29. Ryu C, Sun H, Gulati M, Herazo-Maya JD, Chen Y, Osafo-Addo A, Brandsdorfer C, Winkler J, Blaul C, Faunce J, Pan H, Woolard T, Tzouvelekis A, Antin-Ozerkis DE, Puchalski JT, Slade M, Gonzalez AL, Bogenhagen DF, Kirillov V, Feghali-Bostwick C, Gibson K, Lindell K, Herzog RI, Dela Cruz CS, Mehal W, Kaminski N, Herzog EL, Trujillo G. (2017). Extracellular Mitochondrial DNA Is Generated by Fibroblasts and Predicts Death in Idiopathic Pulmonary Fibrosis. *Am J Respir Crit Care Med* 196(12), 1571-1581. PMCID: PMC5754440.PMID: 28783377 Impact Factor:13.204
30. Schmidt V, Nagar R, Martinez LA. (2017). Control of Nucleotide Metabolism Enables Mutant p53's Oncogenic Gain-of-Function Activity. *Int J Mol Sci* 18(12). PMCID: PMC5751358.PMID: 29257071 Impact Factor:3.226
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- * 32. Williams B, Correnti J, Oranu A, Lin A, Scott V, Annoh M, Beck J, Furth E, Mitchell V, Senkal CE, Obeid L, Carr RM. (2018). A novel role for ceramide synthase 6 in mouse and human alcoholic steatosis. *FASEB J* 32(1), 130-142. PMCID: PMC5731793.PMID: 28864659 Impact Factor:
- * 33. Xu R, Garcia-Barros M, Wen S, Li F, Lin CL, Hannun YA, Obeid LM, Mao C. (2018). Tumor suppressor p53 links ceramide metabolism to DNA damage response through alkaline ceramidase 2. *Cell Death Differ* 25(5), 841-856. PMCID: PMC5943524.PMID: 29229990 Impact Factor:
- * 34. Ren J, Snider J, **Airola MV**, Zhong A, Rana NA, **Obeid LM**, **Hannun YA**. (2018). Quantification of 3-ketodihydrosphingosine using HPLC-ESI-MS/MS to study SPT activity in yeast *Saccharomyces cerevisiae*. *J Lipid Res* 59(1), 162-170. PMCID: PMC5748491.PMID: 29092960 Impact Factor:4.81
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- * 37. Dupre TV, Doll MA, Shah PP, Sharp CN, Siow D, Megyesi J, Shayman J, Bielawska A, Bielawski J, Beverly LJ, Hernandez-Corbacho M, **Clarke CJ**, **Snider AJ**, Schnellmann RG, **Obeid LM**, **Hannun YA**, Siskind LJ. (2017). Inhibiting glucosylceramide synthase exacerbates cisplatin-induced acute kidney injury. *J Lipid Res* 58(7), 1439-1452. PMCID: PMC5496040.PMID: 28490444 Impact Factor:4.81

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- * M 39. Bouklas T, Alonso-Crisóstomo L, Székely T, Diago-Navarro E, Orner EP, Smith K, Munshi MA, **Del Poeta M**, **Balázsi G**, Fries BC. (2017). Generational distribution of a *Candida glabrata* population: Resilient old cells prevail, while younger cells dominate in the vulnerable host. *PLoS Pathog* 13(5), e1006355. PMCID: PMC5440053.PMID: 28489916 Impact Factor:

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- M 53. Chen PW, Fonseca LL, **Hannun YA,** Voit EO. (2016). Analysis of the Involvement of Different Ceramide Variants in the Response to Hydroxyurea Stress in Baker's Yeast. *PLoS One* 11(1), e0146839. PMCID: PMC4718512.PMID: 26784947 Impact Factor:2.806

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- M 66. McCracken AN, McMonigle RJ, Tessier J, Fransson R, Perryman MS, Chen B, Keebaugh A, Selwan E, Barr SA, Kim SM, Roy SG, Liu G, Fallegger D, Sernissi L, Brandt C, Moitessier N, **Snider AJ,** Clare S, Müschen M, Huwiler A, Kleinman MT, Hanessian S, Edinger AL. (2017). Phosphorylation of a constrained azacyclic FTY720 analog enhances anti-leukemic activity without inducing S1P receptor activation. *Leukemia* 31(3), 669-677. PMCID: PMC5332311.PMID: 27573555 Impact Factor:

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