

1. Anita I. E. Faber, Marianne van der Zwaag, Hein Schepers, Ellie Eggens-Meijer, Bart Kanon, Carmen IJsebaart, Jeroen Kuipers, Ben N. G. Giepmans, Raimundo Freire, Nicola A. Grzeschik, Catherine Rabouille, Ody C. M. Sibon. Vps13 is required for timely removal of nurse cell corpses. **Development** 2020 147: dev191759 doi: 10.1242/dev.191759 [Pdf](#)
2. Roald A Lambrechts, Hein Schepers, Yi Yu, Marianne van der Zwaag, Kaija J Autio, Marcel A Vieira-Lara, Barbara M Bakker, Marina A Tijssen, Susan J Hayflick, Nicola A Grzeschik & Ody CM Sibon. CoA-dependent activation of mitochondrial acyl carrier protein links four neurodegenerative diseases. **EMBO Molecular Medicine** 2019 e10488 [Pdf](#)
3. Lambrechts RA, Polet SS, Hernandez-Pichardo A, van Ninhuys L, Gorter JA, Grzeschik NA, de Koning-Tijssen MAJ, de Koning TJ, Sibon OCM.. North Sea progressive myoclonus epilepsy is exacerbated by heat, a phenotype primarily associated with affected glia.. **Neuroscience** 2019 Nov 1. pii: S0306-4522(19)30727-4. doi: 10.1016/j.neuroscience.2019.10.035. [Pdf](#)
4. Jeong SY, Hogarth P, Placzek A, Gregory AM, Fox R, Zhen D, Hamada J, van der Zwaag M, Lambrechts R, Jin H, Nilsen A, Cobb J, Pham T, Gray N, Ralle M, Duffy M, Schwanemann L, Rai P, Freed A, Wakeman K, Woltjer RL, Sibon OC, Hayflick SJ. 4'-Phosphopantetheine corrects CoA, iron, and dopamine metabolic defects in mammalian models of PKAN.. **EMBO Molecular Medicine** 2019 Oct 29:e10489 [Pdf](#)
5. Yeshaw WM, van der Zwaag M, Pinto F, Lahaye LL, Faber AI, Gómez-Sánchez R, Dolga AM, Poland C, Monaco AP, van IJendoorn S, Grzeschik NA, Velayos-Baeza A, Sibon OC.. Human VPS13A is associated with multiple organelles and influences mitochondrial morphology and lipid droplet motility. **E-life** 2019 Feb 11;8. pii: e43561. [Pdf](#)
6. Roald Lambrechts, Anita Faber, Ody Sibon. Modelling in miniature: Using *Drosophila melanogaster* to study human neurodegeneration. **Drug Discovery Today: Disease Models** 2018 Oct. <https://doi.org/10.1016/j.ddmod.2018.09.004> [Pdf](#)
7. Li YX, Sibon OCM, Dijkers PF.. Inhibition of NF- κ B in astrocytes is sufficient to delay neurodegeneration induced by proteotoxicity in neurons.. **Journal of Neuroinflammation** 2018 Sep 11;15(1):261. [Pdf](#)
8. Arcangela Iuso, Marit Wiersma Hans-Joachim Schüller,, Bart Kanon, Nicola A. Grzeschik, J..... Dorothea Haas*, Ody C.M. Sibon*, and Yair Anikster* (* shared authorship). Mutations in PPCS, Encoding Phosphopantothienoylcystein Synthetase, Cause Autosomal-Recessive Dilated Cardiomyopathy. **American Journal of Human Genetics** 2018 Jun 7, 102, 1–13. [Pdf](#)
9. Matteo Bason, Melanie Meister-Broekema, Niels Alberts, Pascale Dijkers, Steven Bergink, Ody C.M. Sibon, Harm H. Kampinga. Astrocytic expression of the chaperone DNAJB6 results in non-cell autonomous protection in Huntington's disease. **Neurobiology of Disease** 2018 Volume 124, April, 108-117 [Pdf](#)
10. Wiersma M, Meijering RAM, Qi XY, Zhang D, Liu T, Hoogstra-Berends F, Sibon OCM, Henning RH, Nattel S, Brundel BJM. Endoplasmic Reticulum Stress Is Associated With Autophagy and Cardiomyocyte Remodeling in Experimental and Human Atrial Fibrillation. **Journal of the American Heart Association** 2017 Oct 24;6(10). pii: e006458 [Pdf](#)
11. Ivano Di Meo, Cristina Colombelli, Balaji Srinivasan, Marianne de Villiers, Jeffrey Hamada, SuhY. Jeong, Rachel Fox, Randall. Woltjer, Pieter G. Tepper, Liza L. Lahaye, Emanuela Rizzetto, Clara H. Harrs, Theo de Boer, Marianne van der Zwaag, Branko Jenko,. Acetyl-4'-phosphopantetheine is stable in serum and prevents phenotypes induced by pantothenate kinase deficiency. **Scientific Reports** 2017 Sep 12;7(1):11260 [Pdf](#)
12. Hoffmann RF, Moshkin YM, Mouton S, Grzeschik NA, Kalicharan RD, Kuipers J, Wolters AH, Nishida K, Romashchenko AV, Postberg J, Lipps H, Berezikov E, Sibon OC, Giepmans BN, Lansdorp

- PM.. Guanine quadruplex structures localize to heterochromatin.. **Nucleic Acids Research** 2017 Apr 25. doi: 10.1093/nar/gkx301. [Epub ahead of print] [Pdf](#)
13. Pappas SS, Bonifacino J, Danek A, Dauer WT, De M, De Franceschi L, DiPaolo G, Fuller R, Haucke V, Hermann A, Kornmann B, Landwehrmeyer B, Levin J, Neiman AM, Rudnicki DD, Sibon O, Velayos-Baeza A, Vonk JJ, Walker RH, Weisman LS, Albin RL.. Eighth International Chorea-Acanthocytosis Symposium: Summary of Workshop Discussion and Action Points.. **Tremor and other hyperkinetic movements** 2017 Feb 15;7:428 [Pdf](#)
 14. Vonk JJ, Yeshaw WM, Pinto F, Faber AI, Lahaye LL, Kanon B, van der Zwaag M, Velayos-Baeza A, Freire R, van IJendoorn SC, Grzeschik NA, Sibon OC. Drosophila Vps13 Is Required for Protein Homeostasis in the Brain.. **PLoS One** 2017 Jan 20;12(1):e0170106. [Pdf](#)
 15. Sibon OC, Strauss E.. Coenzyme A: to make it or uptake it?. **Nature Reviews Molecular Cell Biology** 2016 Oct;17(10):605-6. [Pdf](#)
 16. Vos MJ, Carra S, Kanon B, Bosveld F, Klauke K, Sibon OC, Kampinga HH.. Specific protein homeostatic functions of small heat-shock proteins increase lifespan.. **Aging Cell** 2016 Apr;15(2):217-26. [Pdf](#)
 17. Hoffmann RF, Moshkin YM, Mouton S, Grzeschik NA, Kalicharan RD, Kuipers J, Wolters AH, Nishida K, Romashchenko AV, Postberg J, Lipps H, Berezikov E, Sibon OC, Giepmans BN, Lansdorp PM.. Guanine quadruplex structures localize to heterochromatin.. **Nucleic Acids Research** 2016 Jan 8;44(1):152-63. [Pdf](#)
 18. Srinivasan B, Baratashvili M, van der Zwaag M, Kanon B, Colombelli C, Lambrechts RA, Schaap O, Nollen EA, Podgoršek A, Kosec G, Petković H, Hayflick S, Tiranti V, Reijngoud DJ, Grzeschik NA, Sibon OC.. Extracellular 4'-phosphopantetheine is a source for intracellular coenzyme A synthesis.. **Nature Chemical Biology** 2015 Oct;11(10):784-92. [Pdf](#)
 19. Snijder PM, Baratashvili M, Grzeschik NA, Leuvenink HG, Kuijpers L, Huitema S, Schaap O, Giepmans BN, Kuipers J, Miljkovic JL, Mitrovic A, Bos EM, Szabó C, Kampinga HH, Dijkers PF, Den Dunnen WF, Filipovic MR, Van Goor H, Sibon OC.. Overexpression of cystathionine γ -lyase suppresses detrimental effects of spinocerebellar ataxia type 3.. **Molecular Medicine** 2015 21:758-768 [Pdf](#)
 20. Srinivasan B, Sibon OC.. Coenzyme A, more than 'just' a metabolic cofactor.. **Biochemical Society Transactions** 2014 Aug;42(4):1075-9. Review. [Pdf](#)
 21. Theodoulou FL, Sibon OC, Jackowski S, Gout I.. Coenzyme A and its derivatives: renaissance of a textbook classic.. **Biochemical Society Transactions** 2014 Aug;42(4):1025-32. Review. [Pdf](#)
 22. Iuso A, Sibon OC, Gorza M, Heim K, Organisti C, Meitinger T, Prokisch H.. Impairment of Drosophila orthologs of the human orphan protein C19orf12 induces bang sensitivity and neurodegeneration.. **PLoS One** 2014 Feb 21;9(2):e89439. [Pdf](#)
 23. Brunetti D, Dusi S, Giordano C, Lamperti C, Morbin M, Fagnanesi V, Marchet S, Fagiolari G, Sibon O, Moggio M, d'Amati G, Tiranti V.. Pantethine treatment is effective in recovering the disease phenotype induced by ketogenic diet in a pantothenate kinase-associated neurodegeneration mouse model.. **Brain** 2014 Jan;137(Pt 1):57-68. [Pdf](#)
 24. Zhang D, Wu CT, Qi X, Meijering RA, Hoogstra-Berends F, Tadevosyan A, Cubukcuoglu Deniz G, Durdu S, Akar AR, Sibon OC, Nattel S, Henning RH, Brundel BJ.. Activation of histone deacetylase-6 induces contractile dysfunction through derailment of α -tubulin proteostasis in experimental and human atrial fibrillation.. **Circulation** 2014 Jan 21;129(3):346-58. [Pdf](#)
 25. Baratashvili M, Snijder PM, den Dunnen W, Leuvenink HGD, Sibon OCM, van Goor H.. P55 Overexpression of cystathionine gamma-lyase suppresses spinocerebellar ataxia type 3-associated neurodegeneration in drosophila.. **Nitric oxide-Biology and chemistry** 2014 39, S32-S33. [Pdf](#)

26. Lambrechts R, Srinivasan B, Geertsema E, Poelarends G, Sibon O, de Villiers M.. Synthesis and characterization of 4-thiobutyl triphenylphosphonium-pantetheine, a pantetheine derivative.. **American Chemical Science Journal** 2014 4(5), 676-686. [Pdf](#)
27. den Hoed M, ... Sibon OC, et al.. Identification of heart rate-associated loci and their effects on cardiac conduction and rhythm disorders.. **Nature Genetics** 2013 Jun;45(6):621-31. [Pdf](#)
28. Snijder PM, Barathasvili M, den Dunnen W, Leuvenink HGD, Van HG, Sibon OC.. Overexpression of cystathionine gamma-lyase partly rescues the phenotype of spinocerebellar ataxia type 3 in *Drosophila Melanogaster*.. **Nitric oxide-Biology and chemistry** 2013 31, S32-S33. [Pdf](#)
29. Prohaska R, Sibon OC, Rudnicki DD, Danek A, Hayflick SJ, Verhaag EM, Vonk JJ, Margolis RL, Walker RH.. Brain, blood, and iron: perspectives on the roles of erythrocytes and iron in neurodegeneration.. **Neurobiology of Disease** 2012 Jun;46(3):607-24. Review. [Pdf](#)
30. Siudeja K, Grzeschik NA, Rana A, de Jong J, Sibon OC.. Cofilin/Twinstar phosphorylation levels increase in response to impaired coenzyme a metabolism.. **PLoS One** 2012 7(8):e43145. [Pdf](#)
31. Siudeja K, Srinivasan B, Xu L, Rana A, de Jong J, Nollen EA, Jackowski S, Sanford L, Hayflick S, Sibon OC.. Impaired Coenzyme A metabolism affects histone and tubulin acetylation in *Drosophila* and human cell models of pantothenate kinase associated neurodegeneration.. **EMBO Molecular Medicine** 2011 Dec;3(12):755-66. [Pdf](#)
32. Zhang D, Ke L, Mackovicova K, Van Der Want JJ, Sibon OC, Tanguay RM, Morrow G, Henning RH, Kampinga HH, Brundel BJ.. Effects of different small HSPB members on contractile dysfunction and structural changes in a *Drosophila melanogaster* model for Atrial Fibrillation.. **Journal of Molecular and Cellular Cardiology** 2011 Sep;51(3):381-9. [Pdf](#)
33. Seinen E, Burgerhof JG, Jansen RC, Sibon OC.. RNAi-induced off-target effects in *Drosophila melanogaster*: frequencies and solutions.. **Briefings in Functional Genomics** 2011 Jul;10(4):206-14. [Pdf](#)
34. Vos MJ, Zijlstra MP, Carra S, Sibon OC, Kampinga HH.. Small heat shock proteins, protein degradation and protein aggregation diseases.. **Autophagy** 2011 Jan;7(1):101-3. [Pdf](#)
35. Siudeja K, de Jong J, Sibon OC.. Studying cell cycle checkpoints using *Drosophila* cultured cells.. **Methods in Molecular Biology** 2011 782:59-73. [Pdf](#)
36. Vos MJ, Zijlstra MP, Kanon B, van Waarde-Verhagen MA, Brunt ER, Oosterveld-Hut HM, Carra S, Sibon OC, Kampinga HH.. HSPB7 is the most potent polyQ aggregation suppressor within the HSPB family of molecular chaperones.. **Human Molecular Genetics** 2010 Dec 1;19(23):4677-93. [Pdf](#)
37. Carra S, Boncoraglio A, Kanon B, Brunsting JF, Minoia M, Rana A, Vos MJ, Seidel K, Sibon OC, Kampinga HH.. Identification of the *Drosophila* ortholog of HSPB8: implication of HSPB8 loss of function in protein folding diseases.. **Journal of Biological Chemistry** 2010 Nov 26;285(48):37811-22. [Pdf](#)
38. Seinen E, Burgerhof JG, Jansen RC, Sibon OC.. RNAi experiments in *D. melanogaster*: solutions to the overlooked problem of off-targets shared by independent dsRNAs.. **PLoS One** 2010 Oct 1;5(10). pii: e13119. [Pdf](#)
39. Rana A, Seinen E, Siudeja K, Muntendam R, Srinivasan B, van der Want JJ, Hayflick S, Reijngoud DJ, Kayser O, Sibon OC.. Pantethine rescues a *Drosophila* model for pantothenate kinase-associated neurodegeneration.. **Proceedings of the National Academy of Sciences of the United States of America** . 2010 Apr 13;107(15):6988-93. [Pdf](#)
40. Meijering R, Zhang D, Ke L, Sibon O, Parmentier J, Kampinga H, ... Brundel BJ.. Hdac6 and Sirtuin Inhibitors Protect Against Tachypacing-Induced Contractile Dysfunction in in vitro and in vivo Models for Atrial Fibrillation.. **Circulation** 2010 122(21). [Pdf](#)

41. Lu Ping Tan, Erwin Seinen, Gerben Duns, Debora de Jong, Ody C. M. Sibon, Sibrand Poppema, Bart-Jan Kroesen, Klaas Kok and Anke van den Berg. A high throughput experimental approach to identify miRNA targets in human cells.. **Nucleic Acids Research** 2009 Nov;37(20):e137. [Pdf](#)
42. Yi X, de Vries HI, Siudeja K, Rana A, Lemstra W, Brunsting JF, Kok RM, Smulders YM, Schaefer M, Dijk F, Shang Y, Eggen BJ, Kampinga HH, Sibon OC.. Stwl modifies chromatin compaction and is required to maintain DNA integrity in the presence of perturbed DNA replication.. **Molecular Biology of the Cell** 2009 Feb;20(3):983-94. [Pdf](#)
43. Tan LP, Kroesen B-J, Tiacci E, Duns G, Seinen E, Sibon O, ... Van den Berg A.. Contribution of Deregulated miRNAs to the Phenotypic Characteristic of Hodgkin Lymphoma.. **Blood** 2009 114(22), 112-113. [Pdf](#)
44. Bosveld F, Rana A, Lemstra W, Kampinga HH, Sibon OC.. Drosophila phosphopantothienoylcysteine synthetase is required for tissue morphogenesis during oogenesis.. **BMC Research Notes** 2008 Aug 29;1:75. [Pdf](#)
45. Bosveld F, Rana A, van der Wouden PE, Lemstra W, Ritsema M, Kampinga HH, Sibon OC.. De novo CoA biosynthesis is required to maintain DNA integrity during development of the Drosophila nervous system.. **Human Molecular Genetics** 2008 Jul 1;17(13):2058-69. [Pdf](#)
46. Yi X, Lemstra W, Vos MJ, Shang Y, Kampinga HH, Su TT, Sibon OC.. A long-term flow cytometry assay to analyze the role of specific genes of Drosophila melanogaster S2 cells in surviving genotoxic stress.. **Cytometry part A** 2008 Jul;73(7):637-42. [Pdf](#)
47. Bosveld F, van Hoek S, Sibon OC.. Establishment of cell fate during early Drosophila embryogenesis requires transcriptional Mediator subunit dMED31.. **Developmental Biology** 2008 Jan 15;313(2):802-13. [Pdf](#)
48. Tan LP, Seinen E, Duns G, Jong D, Schakel RN, Harms G, ... van den Berg A.. A High Throughput Experimental Approach to Identify miRNA Target Genes in Hodgkin Lymphoma.. **Blood** 2008 112(11), 520-520. [Pdf](#)
49. Jaklevic B, Uyetake L, Lemstra W, Chang J, Leary W, Edwards A, Vidwans S, Sibon O, Tin Su T.. Contribution of growth and cell cycle checkpoints to radiation survival in Drosophila.. **Genetics** 2006 Dec;174(4):1963-72. [Pdf](#)
50. Rujano MA, Bosveld F, Salomons FA, Dijk F, van Waarde MA, van der Want JJ, de Vos RA, Brunt ER, Sibon OC, Kampinga HH.. Polarised asymmetric inheritance of accumulated protein damage in higher eukaryotes.. **PLOS Biology** 2006 Dec;4(12):e417. [Pdf](#)
51. Bosveld F, Van der Wouden PE, Ritsema M, Kampinga HH, Sibon OCM.. De novo Coa-SH biosynthesis is required for neurological integrity in Drosophila melanogasteri.. **Journal of neurogenetics** 2006 20(3-4), 93-93. [Pdf](#)
52. Seinen E, Kampinga HH, Sibon OCM.. Drosophila melanogaster as a model for the human neurodegenerative disorder PKAN.. **Journal of neurogenetics** 2006 20(3-4), 218-219. [Pdf](#)
53. Hut HM, Rembacz KP, van Waarde MA, Lemstra W, van Cappellen WA, Kampinga HH, Sibon OC.. Dysfunctional BRCA1 is only indirectly linked to multiple centrosomes.. **Oncogene** 2005 Nov 17;24(51):7619-23. [Pdf](#)
54. Hut HM, Kampinga HH, Sibon OC.. Hsp70 protects mitotic cells against heat-induced centrosome damage and division abnormalities.. **Molecular Biology of the Cell** 2005 Aug;16(8):3776-85. [Pdf](#)
55. de Vries HI, Uyetake L, Lemstra W, Brunsting JF, Su TT, Kampinga HH, Sibon OC.. Grp/DChk1 is required for G2-M checkpoint activation in Drosophila S2 cells, whereas Dmnk/DChk2 is dispensable.. **Journal of Cell Science** 2005 May 1;118(Pt 9):1833-42. [Pdf](#)
56. Khodjakov A, Rieder C, Sluder G, Sibon O, Cassels G.. De novo formation of centrosomes in vertebrate cells.. **Journal of Cell Biology** 2003 Sept 30, 1171-1181 [Pdf](#)

57. Hut HM, Lemstra W, Blaauw EH, Van Cappellen GW, Kampinga HH, Sibon OC.. Centrosomes split in the presence of impaired DNA integrity during mitosis.. **Molecular Biology of the Cell** 2003 May;14(5):1993-2004. [Pdf](#)
58. Hut H, Lemstra W, van Cappellen G, Kampinga H, Sibon O.. Responses of centrosomes to impaired DNA integrity during mitosis cause aneuploidy.. **Cell Motility and the Cytoskeleton** 2003 54(2), 171-171. [Pdf](#)
59. Khodjakov A, Rieder CL, Sluder G, Cassels G, Sibon O, Wang CL.. De novo formation of centrosomes in vertebrate cells arrested during S phase.. **Journal of Cell Biology** 2002 Sep 30;158(7):1171-81. [Pdf](#)
60. Sibon OC.. Centrosomes as DNA damage regulators.. **Nature Genetics** 2002 May;34(1):6-7. No abstract available. [Pdf](#)
61. Nollen EA, Salomons FA, Brunsting JF, van der Want JJ, Sibon OC, Kampinga HH.. Dynamic changes in the localization of thermally unfolded nuclear proteins associated with chaperone-dependent protection.. **Proceedings of the National Academy of Sciences of the United States of America** . 2001 Oct 9;98(21):12038-43. [Pdf](#)
62. Sibon OC, Kelkar A, Lemstra W, Theurkauf WE.. DNA-replication/DNA-damage-dependent centrosome inactivation in Drosophila embryos.. **Nature Cell Biology** 2000 Feb;2(2):90-5. [Pdf](#)
63. Sibon OC, Laurençon A, Hawley R, Theurkauf WE.. The Drosophila ATM homologue Mei-41 has an essential checkpoint function at the midblastula transition.. **Current Biology** 1999 Mar 25;9(6):302-12. [Pdf](#)
64. Sibon OC, Stevenson VA, Theurkauf WE.. DNA-replication checkpoint control at the Drosophila midblastula transition.. **Nature** 1997 Jul 3;388(6637):93-7. [Pdf](#)
65. Ludérus ME, van Steensel B, Chong L, Sibon OC, Cremers FF, de Lange T.. Structure, subnuclear distribution, and nuclear matrix association of the mammalian telomeric complex.. **Journal of Cell Biology** 1996 Nov;135(4):867-81. [Pdf](#)
66. Sibon OC, Wansink DG, Boonstra J, Humbel BM, Verkleij AJ, Cremers FF.. EGF-receptor RNA metabolism in the nucleus of A431 cells.. **European Journal of Cell Biology** 1996 Sep;71(1):45-52. [Pdf](#)
67. Wansink DG, Sibon OC, Cremers FF, van Driel R, de Jong L.. Ultrastructural localization of active genes in nuclei of A431 cells.. **Journal of Cellular Biochemistry** 1996 Jul;62(1):10-8. [Pdf](#)
68. Humbel BM, Sibon OC, Stierhof YD, Schwarz H.. Ultra-small gold particles and silver enhancement as a detection system in immunolabeling and in situ hybridization experiments.. **Journal of Histochemistry & Cytochemistry** 1995 Jul;43(7):735-7. No abstract available. [Pdf](#)
69. Sibon OC, Cremers FF, Humbel BM, Boonstra J, Verkleij AJ.. Localization of nuclear RNA by pre- and post-embedding in situ hybridization using different gold probes.. **Histochemical Journal** 1995 Jan;27(1):35-45. [Pdf](#)
70. Sibon OC, Humbel BM, De Graaf A, Verkleij AJ, Cremers FF.. Ultrastructural localization of epidermal growth factor (EGF)-receptor transcripts in the cell nucleus using pre-embedding in situ hybridization in combination with ultra-small gold probes and silver enhancement.. **Histochemistry** 1994 Mar;101(3):223-32. [Pdf](#)
71. Sibon OC, Cremers FF, Boonstra J, Humbel BM, Verkleij AJ.. Localisation of EGF-receptor mRNA in the nucleus of A431 cells by light microscopy.. **Cell Biology International** 1993 Jan;17(1):1-11. [Pdf](#)