

1. Marit A. de Beer, Jeroen Kuipers, Paul M. P. van Bergen en Henegouwen, **Ben N. G. Giepmans** A small protein probe for correlated microscopy of endogenous proteins **Histochemistry and Cell Biology** 2018 <https://doi.org/10.1007/s00418-018-1632-6>. **Pdf.**
2. Scotuzzi M, Kuipers J, Wensveen DI, de Boer P, Hagen KC, Hoogenboom JP, **Giepmans BN**. Multi-color electron microscopy by element-guided identification of cells, organelles and molecules. **Scientific Reports** 2017 Apr 7;7:45970. **Pdf.**
3. Hemelaar SR, de Boer P, Chipaux M, Zuidema W, Hamoh T, Martinez FP, Nagl A, Hoogenboom JP, **Giepmans BN**, Schirhagl R Nanodiamonds as multi-purpose labels for microscopy. **Scientific Reports** 2017 Apr 7;7(1):720. **Pdf.**
4. 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.**
5. Mathijs W. H. Garming, I. Gerward C. Weppelman, Pascal de Boer, Felipe Perona Martínez, Romana Schirhagl, Jacob P. Hoogenboom and Robert J. Moerland Nanoparticle discrimination based on wavelength and lifetime-multiplexed cathodoluminescence microscopy **Nanoscale** 2017 9, 12727–12734. **Pdf.**
6. Sokol E, Nijenhuis M, Sjollema KA, Jonkman MF, Pas HH, **Giepmans BN** Particle Bombardment of Ex Vivo Skin to Deliver DNA and Express Proteins. **Methods in Molecular Biology** 2017 1559:107-118.. **Pdf.**
7. Kirschbaum M, Jenne CN, Veldhuis ZJ, Sjollema KA, Lenting PJ, **Giepmans BN**, Porte RJ, Kubes P, Denis CV, Lisman T. Transient von Willebrand factor-mediated platelet influx stimulates liver regeneration after partial hepatectomy in mice. **Liver International** 2017 Feb 8. doi: 10.1111/liv.13386. **Pdf.**
8. Campbell-Thompson ML, Atkinson MA, Butler AE, **Giepmans BN**, von Herrath MG, Hyöty H, Kay TW, Morgan NG, Powers AC, Pugliese A, Richardson SJ, In't Veld PA Re-addressing the 2013 consensus guidelines for the diagnosis of insulinitis in human type 1 diabetes: is change necessary? **Diabetologia** 2017 Jan 9. doi: 10.1007/s00125-016-4195-x. [Epub ahead of print] No abstract available.. **Pdf.**
9. Thiruvalluvan A, Czepiel M, Kap YA, Mantingh-Otter I, Vainchtein I, Kuipers J, Bijlard M, Baron W, **Giepmans B**, Brück W, 't Hart BA, Boddeke E, Copray S. Survival and Functionality of Human Induced Pluripotent Stem Cell-Derived Oligodendrocytes in a Nonhuman Primate Model for Multiple Sclerosis. **Stem Cells Translational Medicine** 2016 Jul 11. pii: sctm.2016-0024. [Epub ahead of print]. **Pdf.**
10. Maimets M, Rocchi C, Bron R, Pringle S, Kuipers J, **Giepmans BN**, Vries RG, Clevers H, de Haan G, van Os R, Coppes RP. Long-Term In Vitro Expansion of Salivary Gland Stem Cells Driven by Wnt Signals. **Stem Cell Reports** 2016 Jan 12;6(1):150-62.. **Pdf.**
11. de Vos P, Smink AM, Paredes G, Lakey JR, Kuipers J, **Giepmans BN**, de Haan BJ, Faas MM. Enzymes for Pancreatic Islet Isolation Impact Chemokine-Production and Polarization of Insulin-Producing β -Cells with Reduced Functional Survival of Immunoisolated Rat Islet-Allografts as a Consequence. **PLoS One** 2016 Jan 29;11(1):e0147992.. **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** 2016 Jan 8;44(1):152-63.. **Pdf.**

13. Op den Dries S, Karimian N, Westerkamp AC, Sutton ME, Kuipers M, Wiersema-Buist J, Ottens PJ, Kuipers J, **Giepmans BN**, Leuvenink HG, Lisman T, Porte RJ. Normothermic machine perfusion reduces bile duct injury and improves biliary epithelial function in rat donor livers. **Liver Transplantation** 2016 Jul;22(7):994-1005.. [Pdf](#).
14. Kuipers J, Kalicharan RD, Wolters AH, van Ham TJ, **Giepmans BN**. Large-scale Scanning Transmission Electron Microscopy (Nanotomy) of Healthy and Injured Zebrafish Brain. **Journal of Visualized Experiments** 2016 May 25;(111).. [Pdf](#).
15. Overeem AW, Posovszky C, Rings EH, **Giepmans BN**, van IJendoorn SC. The role of enterocyte defects in the pathogenesis of congenital diarrheal disorders. **Disease models & mechanisms** 2016 Jan;9(1):1-12. Review.. [Pdf](#).
16. Adams SR, Mackey MR, Ramachandra R, Palida Lemieux SF, Steinbach P, Bushong EA, Butko MT, **Giepmans BN**, Ellisman MH, Tsien RY Multicolor Electron Microscopy for Simultaneous Visualization of Multiple Molecular Species. **Cell Chemical Biology** 2016 Nov 17;23(11):1417-1427. [Pdf](#).
17. Matas-Rico E, van Veen M, Leyton-Puig D, van den Berg J, Koster J, Kedziora KM, Molenaar B, Weerts MJ, de Rink I, Medema RH, **Giepmans BN**, Perrakis A, Jalink K, Versteeg R, Moolenaar WH. Glycerophosphodiesterase GDE2 Promotes Neuroblastoma Differentiation through Glypican Release and Is a Marker of Clinical Outcome. **Cancer Cell** 2016 Oct 10;30(4):548-562.. [Pdf](#).
18. Matas-Rico E, van Veen M, Leyton-Puig D, van den Berg J, Koster J, Kedziora KM, Molenaar B, Weerts MJ, de Rink I, Medema RH, **Giepmans BN**, Perrakis A, Jalink K, Versteeg R, Moolenaar WH. Glycerophosphodiesterase GDE2 Promotes Neuroblastoma Differentiation through Glypican Release and Is a Marker of Clinical Outcome. **Cancer Cell** 2016 Dec 12;30(6):986.. [Pdf](#).
19. Hodik M, Skog O, Lukinius A, Isaza-Correa JM, Kuipers J, **Giepmans BN**, Frisk G. Enterovirus infection of human islets of Langerhans affects β -cell function resulting in disintegrated islets, decreased glucose stimulated insulin secretion and loss of Golgi structure. **BMJ Open Diabetes Research & Care** 2016 Aug 10;4(1):e000179.. [Pdf](#).
20. Smink AM, de Haan BJ, Paredes-Juarez GA, Wolters AH, Kuipers J, **Giepmans BN**, Schwab L, Engelse MA, van Apeldoorn AA, de Koning E, Faas MM, de Vos P. Selection of polymers for application in scaffolds applicable for human pancreatic islet transplantation. **Bioscience Reports** 2016 May 13;11(3):035006.. [Pdf](#).
21. Capala ME, Maat H, Bonardi F, van den Boom V, Kuipers J, Vellenga E, **Giepmans BN**, Schuringa JJ. Mitochondrial Dysfunction in Human Leukemic Stem/Progenitor Cells upon Loss of RAC2. **PLoS One** 2015 May 27;10(5):e0128585.. [Pdf](#).
22. de Boer P, Hoogenboom JP, **Giepmans BN**. Correlated light and electron microscopy: ultrastructure lights up! **Nature Methods** 2015 Jun;12(6):503-13. Review.. [Pdf](#).
23. 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](#).
24. Sokol E, Kramer D, Diercks GF, Kuipers J, Jonkman MF, Pas HH, **Giepmans BN**. Large-Scale Electron Microscopy Maps of Patient Skin and Mucosa Provide Insight into Pathogenesis of Blistering Diseases. **Journal of Investigative Dermatology** 2015 Jul;135(7):1763-70.. [Pdf](#).

25. Kuipers J, de Boer P, **Giepmans BN**. Scanning EM of non-heavy metal stained biosamples: Large-field of view, high contrast and highly efficient immunolabeling. **Experimental Cell Research**. 2015 Oct 1;337(2):202-7. Review.. [Pdf](#).
26. Kuipers J, van Ham TJ, Kalicharan RD, Veenstra-Algra A, Sjollema KA, Dijk F, Schnell U, **Giepmans BN**. FLIPPER, a combinatorial probe for correlated live imaging and electron microscopy, allows identification and quantitative analysis of various cells and organelles. **Cell and Tissue Research** 2015 Apr;360(1):61-70.. [Pdf](#).
27. Kirschbaum M, Karimian G, Adelmeijer J, **Giepmans BN**, Porte RJ, Lisman T. Horizontal RNA transfer mediates platelet-induced hepatocyte proliferation. **Blood** 2015 Aug 6;126(6):798-806.. [Pdf](#).
28. van Ham TJ, Brady CA, Kalicharan RD, Oosterhof N, Kuipers J, Veenstra-Algra A, Sjollema KA, Peterson RT, Kampinga HH, **Giepmans BN**. Intravital correlated microscopy reveals differential macrophage and microglial dynamics during resolution of neuroinflammation. **Disease models & mechanisms** 2014 Jul;7(7):857-69.. [Pdf](#).
29. Ravelli RB, Kalicharan RD, Avramut MC, Sjollema KA, Pronk JW, Dijk F, Koster AJ, Visser JT, Faas FG, **Giepmans BN**. Destruction of tissue, cells and organelles in type 1 diabetic rats presented at macromolecular resolution. **Scientific Reports** 2013 3:1804.. [Pdf](#).
30. Melchers LJ, Bruine de Bruin L, Schnell U, Slagter-Menkema L, Mastik MF, de Bock GH, van Dijk BA, **Giepmans BN**, van der Laan BF, van der Wal JE, Roodenburg JL, Schuurin E. Lack of claudin-7 is a strong predictor of regional recurrence in oral and oropharyngeal squamous cell carcinoma. **Oral Oncology** 2013 Oct;49(10):998-1005.. [Pdf](#).
31. Schnell U, Kuipers J, Mueller JL, Veenstra-Algra A, Sivagnanam M, **Giepmans BN**. Absence of cell-surface EpCAM in congenital tufting enteropathy. **Human Molecular Genetics** 2013 Jul 1;22(13):2566-71.. [Pdf](#).
32. Campbell-Thompson ML, Atkinson MA, Butler AE, Chapman NM, Frisk G, Gianani R, **Giepmans BN**, von Herrath MG, Hyöty H, Kay TW, Korsgren O, Morgan NG, Powers AC, Pugliese A, Richardson SJ, Rowe PA, Tracy S, In't Veld PA. The diagnosis of insulinitis in human type 1 diabetes. **Diabetologia** 2013 Nov;56(11):2541-3. No abstract available.. [Pdf](#).
33. Schnell U, Kuipers J, **Giepmans BN**. EpCAM proteolysis: new fragments with distinct functions? **Bioscience Reports** 2013 Mar 19;33(2):e00030. [Pdf](#).
34. Schnell U, Cirulli V, **Giepmans BN**. EpCAM: structure and function in health and disease. **Biochimica et Biophysica Acta (BBA)** 2013 Aug;1828(8):1989-2001. Review.. [Pdf](#).
35. Schnell U, Dijk F, Sjollema KA, **Giepmans BN**. Immunolabeling artifacts and the need for live-cell imaging. **Nature Methods** 2012 Jan 30;9(2):152-8.. [Pdf](#).
36. Sjollema KA, Schnell U, Kuipers J, Kalicharan R, **Giepmans BN**. Correlated light microscopy and electron microscopy. **Methods in Cell Biology** 2012 111:157-73. Review.. [Pdf](#).
37. Sjollema KA, Schnell U, Kuipers J, Kalicharan R, **Giepmans BNG**. Correlated Light Microscopy and Electron Microscopy. **Methods in Cell Biology** 2012 111, 157-173. San Diego: Academic Press. MullerReichert T, Verkade P (Eds.). [Pdf](#).
38. Hervé JC, Derangeon M, Sarrouilhe D, **Giepmans BN**, Bourmeyster N. Gap junctional channels are parts of multiprotein complexes. **Biochimica et Biophysica Acta (BBA)** 2012 Aug;1818(8):1844-65. Review.. [Pdf](#).
39. Serre-Beinier V, Bosco D, Zulianello L, Charollais A, Caille D, Charpantier E, Gauthier BR, Diaferia GR, **Giepmans BN**, Lupi R, Marchetti P, Deng S, Buhler L, Berney T, Cirulli V, Meda P.

Cx36 makes channels coupling human pancreatic beta-cells, and correlates with insulin expression. **Human Molecular Genetics** 2009 Feb 1;18(3):428-39.. [Pdf](#).

40. **Giepmans BN**, van IJendoorn SC. Epithelial cell-cell junctions and plasma membrane domains. **Biochimica et Biophysica Acta (BBA)** 2009 Apr;1788(4):820-31. Review.. [Pdf](#).
41. Ouyang M, Lu S, Li XY, Xu J, Seong J, **Giepmans BN**, Shyy JY, Weiss SJ, Wang Y. Visualization of polarized membrane type 1 matrix metalloproteinase activity in live cells by fluorescence resonance energy transfer imaging. **Journal of Biological Chemistry** 2008 Jun 20;283(25):17740-8.. [Pdf](#).
42. **Giepmans BN**. Bridging fluorescence microscopy and electron microscopy. **Histochemistry and Cell Biology** 2008 Aug;130(2):211-7. Review.. [Pdf](#).
43. Deerinck TJ, **Giepmans BN**, Smarr BL, Martone ME, Ellisman MH. Light and electron microscopic localization of multiple proteins using quantum dots. **Methods in Molecular Biology** 2007 374:43-53.. [Pdf](#).
44. Sosinsky GE, **Giepmans BN**, Deerinck TJ, Gaietta GM, Ellisman MH. Markers for correlated light and electron microscopy. **Methods in Cell Biology** 2007 79:575-91. Review. No abstract available.. [Pdf](#).
45. van Zeijl L, Ponsioen B, **Giepmans BN**, Ariaens A, Postma FR, Várnai P, Balla T, Divecha N, Jalink K, Moolenaar WH. Regulation of connexin43 gap junctional communication by phosphatidylinositol 4,5-bisphosphate. **Journal of Cell Biology** 2007 Jun 4;177(5):881-91.. [Pdf](#).
46. **Giepmans BN**, Adams SR, Ellisman MH, Tsien RY. The fluorescent toolbox for assessing protein location and function. **Science** 2006 Apr 14;312(5771):217-24. Review.. [Pdf](#).
47. Gaietta GM, **Giepmans BN**, Deerinck TJ, Smith WB, Ngan L, Llopis J, Adams SR, Tsien RY, Ellisman MH. Golgi twins in late mitosis revealed by genetically encoded tags for live cell imaging and correlated electron microscopy. **Proceedings of the National Academy of Sciences of the United States of America** . 2006 Nov 21;103(47):17777-82.. [Pdf](#).
48. **Giepmans BN**. Role of connexin43-interacting proteins at gap junctions. **Advances in Cardiology - Cardiovascular Gap Junctions** 2006 42:41-56.. [Pdf](#).
49. **Giepmans BN**, Deerinck TJ, Smarr BL, Jones YZ, Ellisman MH. Correlated light and electron microscopic imaging of multiple endogenous proteins using Quantum dots. **Nature Methods** 2005 Oct;2(10):743-9.. [Pdf](#).
50. Martin BR, **Giepmans BN**, Adams SR, Tsien RY. Mammalian cell-based optimization of the biarsenical-binding tetracysteine motif for improved fluorescence and affinity. **Nature Biotechnology** 2005 Oct;23(10):1308-14.. [Pdf](#).
51. Shaner NC, Campbell RE, Steinbach PA, **Giepmans BN**, Palmer AE, Tsien RY. Improved monomeric red, orange and yellow fluorescent proteins derived from *Discosoma* sp. red fluorescent protein. **Nature Biotechnology** 2004 Dec;22(12):1567-72.. [Pdf](#).
52. van Meeteren LA, Frederiks F, **Giepmans BN**, Pedrosa MF, Billington SJ, Jost BH, Tambourgi DV, Moolenaar WH. Spider and bacterial sphingomyelinases D target cellular lysophosphatidic acid receptors by hydrolyzing lysophosphatidylcholine. **Journal of Biological Chemistry** 2004 Mar 19;279(12):10833-6.. [Pdf](#).
53. **Giepmans BN**. Gap junctions and connexin-interacting proteins. **Cardiovascular Research** 2004 May 1;62(2):233-45. Review.. [Pdf](#).
54. Moolenaar WH, van Meeteren LA, **Giepmans BN**. The ins and outs of lysophosphatidic acid signaling. **Bioessays** 2004 Aug;26(8):870-81. Review.. [Pdf](#).

55. Nielsen PA, Baruch A, Shestopalov VI, **Giepmans BN**, Dunia I, Benedetti EL, Kumar NM. Lens connexins alpha3Cx46 and alpha8Cx50 interact with zonula occludens protein-1 (ZO-1). **Molecular Biology of the Cell** 2003 Jun;14(6):2470-81.. [Pdf](#).
56. Van Leeuwen FN, Olivo C, Grivell S, **Giepmans BN**, Collard JG, Moolenaar WH. Rac activation by lysophosphatidic acid LPA1 receptors through the guanine nucleotide exchange factor Tiam1. **Journal of Biological Chemistry** 2003 Jan 3;278(1):400-6.. [Pdf](#).
57. Huang S, Dudez T, Scerri I, Thomas MA, **Giepmans BN**, Suter S, Chanson M. Defective activation of c-Src in cystic fibrosis airway epithelial cells results in loss of tumor necrosis factor-alpha-induced gap junction regulation. **Journal of Biological Chemistry** 2003 Mar 7;278(10):8326-32.. [Pdf](#).
58. **Giepmans BN**, Feiken E, Gebbink MF, Moolenaar WH. Association of connexin43 with a receptor protein tyrosine phosphatase. **Cell Communication & Adhesion** 2003 Jul-Dec;10(4-6):201-5.. [Pdf](#).
59. van Leeuwen FN, **Giepmans BN**, van Meeteren LA, Moolenaar WH. Lysophosphatidic acid: mitogen and motility factor. **Biochemical Society Transactions** 2003 Dec;31(Pt 6):1209-12. Review.. [Pdf](#).
60. Lauf U, **Giepmans BN**, Lopez P, Braconnot S, Chen SC, Falk MM. Dynamic trafficking and delivery of connexons to the plasma membrane and accretion to gap junctions in living cells. **Proceedings of the National Academy of Sciences of the United States of America** . 2002 Aug 6;99(16):10446-51.. [Pdf](#).
61. Nielsen PA, Beahm DL, **Giepmans BN**, Baruch A, Hall JE, Kumar NM. Molecular cloning, functional expression, and tissue distribution of a novel human gap junction-forming protein, connexin-31.9. Interaction with zona occludens protein-1. **Journal of Biological Chemistry** 2002 Oct 11;277(41):38272-83.. [Pdf](#).
62. **Giepmans BN**, Hengeveld T, Postma FR, Moolenaar WH. Interaction of c-Src with gap junction protein connexin-43. Role in the regulation of cell-cell communication. **Journal of Biological Chemistry** 2001 Mar 16;276(11):8544-9.. [Pdf](#).
63. **Giepmans BN**, Verlaan I, Hengeveld T, Janssen H, Calafat J, Falk MM, Moolenaar WH. Gap junction protein connexin-43 interacts directly with microtubules. **Current Biology** 2001 Sep 4;11(17):1364-8.. [Pdf](#).
64. **Giepmans BN**, Verlaan I, Moolenaar WH. Connexin-43 interactions with ZO-1 and alpha- and beta-tubulin. **Cell Communication & Adhesion** 2001 8(4-6):219-23.. [Pdf](#).
65. Nielsen PA, Baruch A, **Giepmans BN**, Kumar NM. Characterization of the association of connexins and ZO-1 in the lens. **Cell Communication & Adhesion** 2001 8(4-6):213-7.. [Pdf](#).
66. Postma FR, Hengeveld T, Alblas J, **Giepmans BN**, Zondag GC, Jalink K, Moolenaar WH. Acute loss of cell-cell communication caused by G protein-coupled receptors: a critical role for c-Src. **Journal of Cell Biology** 1998 Mar 9;140(5):1199-209.. [Pdf](#).
67. **Giepmans BN**, Moolenaar WH. The gap junction protein connexin43 interacts with the second PDZ domain of the zona occludens-1 protein. **Current Biology** 1998 Jul 30-Aug 13;8(16):931-4.. [Pdf](#).
68. Troelstra A, **Giepmans BN**, Van Kessel KP, Lichenstein HS, Verhoef J, Van Strijp JA. Dual effects of soluble CD14 on LPS priming of neutrophils. **Journal of Leukocyte Biology** 1997 Feb;61(2):173-8.. [Pdf](#).