# Paul Verkade

## List of Publications by Year in Descending Order



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| 126 papers | 10,362 citations | 45 h-index | 101 g-index |
| 143 ext. papers | 11,406 ext. citations | 7.6 avg, IF | 5.87 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 126 | Endothelial glycocalyx is damaged in diabetic cardiomyopathy: angiopoietin 1 restores glycocalyx and improves diastolic function in mice.. *Diabetologia*, **2022**, 65, 879 | 10.3 | 2 |
| 125 | REMBI: Recommended Metadata for Biological Images-enabling reuse of microscopy data in biology. *Nature Methods*, **2021**, 18, 1418-1422 | 21.6 | 16 |
| 124 | Maintenance of complex I and its supercomplexes by NDUF-11 is essential for mitochondrial structure, function and health. *Journal of Cell Science*, **2021**, 134, | 5.3 | 3 |
| 123 | Nano-scale morphology of cardiomyocyte t-tubule/sarcoplasmic reticulum junctions revealed by ultra-rapid high-pressure freezing and electron tomography. *Journal of Molecular and Cellular Cardiology*, **2021**, 153, 86-92 | 5.8 | 7 |
| 122 | Refining a correlative light electron microscopy workflow using luminescent metal complexes. *Methods in Cell Biology*, **2021**, 162, 69-87 | 1.8 | 0 |
| 121 | Fluorescent platinum nanoclusters as correlative light electron microscopy probes. *Methods in Cell Biology*, **2021**, 162, 39-68 | 1.8 | 2 |
| 120 | Correlative multimodal imaging: Building a community. *Methods in Cell Biology*, **2021**, 162, 417-430 | 1.8 | 1 |
| 119 | De Novo Designed Peptide and Protein Hairpins Self-Assemble into Sheets and Nanoparticles. *Small*, **2021**, 17, e2100472 | 11 | 3 |
| 118 | Antibacterial effects of nanopillar surfaces are mediated by cell impedance, penetration and induction of oxidative stress. *Nature Communications*, **2020**, 11, 1626 | 17.4 | 124 |
| 117 | Cellular uptake and targeting of low dispersity, dual emissive, segmented block copolymer nanofibers. *Chemical Science*, **2020**, 11, 8394-8408 | 9.4 | 22 |
| 116 | Effect of metabolosome encapsulation peptides on enzyme activity, coaggregation, incorporation, and bacterial microcompartment formation. *MicrobiologyOpen*, **2020**, 9, e1010 | 3.4 | 8 |
| 115 | Correlated Multimodal Imaging in Life Sciences: Expanding the Biomedical Horizon. *Frontiers in Physics*, **2020**, 8, | 3.9 | 26 |
| 114 | Prior exercise in humans redistributes intramuscular GLUT4 and enhances insulin-stimulated sarcolemmal and endosomal GLUT4 translocation. *Molecular Metabolism*, **2020**, 39, 100998 | 8.8 | 12 |
| 113 | The interaction of O157 :H7 and Typhimurium flagella with host cell membranes and cytoskeletal components. *Microbiology (United Kingdom)*, **2020**, 166, 947-965 | 2.9 | 4 |
| 112 | Small-residue packing motifs modulate the structure and function of a minimal de novo membrane protein. *Scientific Reports*, **2020**, 10, 15203 | 4.9 | 4 |
| 111 | In situ cryo-electron tomography reveals filamentous actin within the microtubule lumen. *Journal of Cell Biology*, **2020**, 219, | 7.3 | 16 |
| 110 | High-Contrast Imaging of Nanodiamonds in Cells by Energy Filtered and Correlative Light-Electron Microscopy: Towards a Quantitative Nanoparticle-Cell Analysis. *Microscopy and Microanalysis*, **2019**, 25, 1056-1057 | 0.5 | |

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|---|---|---|---|
| 109 | In vitro placenta barrier model using primary human trophoblasts, underlying connective tissue and vascular endothelium. *Biomaterials*, **2019**, 192, 140-148 | 15.6 | 19 |
| 108 | The Importance of Sample Processing for Correlative Imaging (or, Rubbish In, Rubbish Out) **2019**, 37-66 | | 2 |
| 107 | Correlative Light- and Liquid-Phase Scanning Transmission Electron Microscopy for Studies of Protein Function in Whole Cells **2019**, 171-190 | | |
| 106 | Correlating Data from Imaging Modalities **2019**, 191-210 | | 2 |
| 105 | Big Data in Correlative Imaging **2019**, 211-222 | | |
| 104 | 3D CLEM **2019**, 67-79 | | 1 |
| 103 | Transient protein accumulation at the center of the T cell antigen-presenting cell interface drives efficient IL-2 secretion. *ELife*, **2019**, 8, | 8.9 | 2 |
| 102 | High-Contrast Imaging of Nanodiamonds in Cells by Energy Filtered and Correlative Light-Electron Microscopy: Toward a Quantitative Nanoparticle-Cell Analysis. *Nano Letters*, **2019**, 19, 2178-2185 | 11.5 | 26 |
| 101 | Lipid species affect morphology of endoplasmic reticulum: a sea urchin oocyte model of reversible manipulation. *Journal of Lipid Research*, **2019**, 60, 1880-1891 | 6.3 | 7 |
| 100 | Bioinspired Silicification Reveals Structural Detail in Self-Assembled Peptide Cages. *ACS Nano*, **2018**, 12, 1420-1432 | 16.7 | 13 |
| 99 | Modifying Self-Assembled Peptide Cages To Control Internalization into Mammalian Cells. *Nano Letters*, **2018**, 18, 5933-5937 | 11.5 | 16 |
| 98 | Acute depletion of diacylglycerol from the -Golgi affects localized nuclear envelope morphology during mitosis. *Journal of Lipid Research*, **2018**, 59, 1402-1413 | 6.3 | 4 |
| 97 | Engineered synthetic scaffolds for organizing proteins within the bacterial cytoplasm. *Nature Chemical Biology*, **2018**, 14, 142-147 | 11.7 | 85 |
| 96 | Species differences in the morphology of transverse tubule openings in cardiomyocytes. *Europace*, **2018**, 20, iii120-iii124 | 3.9 | 11 |
| 95 | Infectious Bronchitis Virus Nonstructural Protein 4 Alone Induces Membrane Pairing. *Viruses*, **2018**, 10, | 6.2 | 13 |
| 94 | The 2018 correlative microscopy techniques roadmap. *Journal Physics D: Applied Physics*, **2018**, 51, 443001 | 3.1 | 63 |
| 93 | De novo targeting to the cytoplasmic and luminal side of bacterial microcompartments. *Nature Communications*, **2018**, 9, 3413 | 17.4 | 27 |
| 92 | Correlative Light and Electron Microscopy of Influenza Virus Entry and Budding. *Methods in Molecular Biology*, **2018**, 1836, 237-260 | 1.4 | 2 |

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|---|---|---|---|
| 91 | Correlative two-photon and serial block face scanning electron microscopy in neuronal tissue using 3D near-infrared branding maps. *Methods in Cell Biology*, **2017**, 140, 245-276 | 1.8 | 13 |
| 90 | Direct Evidence of Lack of Colocalisation of Fluorescently Labelled Gold Labels Used in Correlative Light Electron Microscopy. *Scientific Reports*, **2017**, 7, 44666 | 4.9 | 11 |
| 89 | Decorating Self-Assembled Peptide Cages with Proteins. *ACS Nano*, **2017**, 11, 7901-7914 | 16.7 | 40 |
| 88 | CLEM, 1+1 =3. *Microscopy and Microanalysis*, **2017**, 23, 1270-1271 | 0.5 | |
| 87 | PKCIlinks proximal T cell and Notch signaling through localized regulation of the actin cytoskeleton. *ELife*, **2017**, 6, | 8.9 | 15 |
| 86 | Computational spatiotemporal analysis identifies WAVE2 and cofilin as joint regulators of costimulation-mediated T cell actin dynamics. *Science Signaling*, **2016**, 9, rs3 | 8.8 | 13 |
| 85 | A novel approach to identifying merging/splitting events in time-lapse microscopy **2016**, | | 2 |
| 84 | Optical micro-spectroscopy of single metallic nanoparticles: quantitative extinction and transient resonant four-wave mixing. *Faraday Discussions*, **2015**, 184, 305-20 | 3.6 | 9 |
| 83 | Ultrastructural Correlates of Enhanced Norepinephrine and Neuropeptide Y Cotransmission in the Spontaneously Hypertensive Rat Brain. *ASN Neuro*, **2015**, 7, | 5.3 | 7 |
| 82 | p75(NTR)-dependent activation of NF-B regulates microRNA-503 transcription and pericyte-endothelial crosstalk in diabetes after limb ischaemia. *Nature Communications*, **2015**, 6, 8024 | 17.4 | 89 |
| 81 | In vivo characterisation of the Golgi matrix protein giantin: linking extracellular matrix secretion and cilia function. *Cilia*, **2015**, 4, | 5.5 | 78 |
| 80 | Mother Centriole Distal Appendages Mediate Centrosome Docking at the Immunological Synapse and Reveal Mechanistic Parallels with Ciliogenesis. *Current Biology*, **2015**, 25, 3239-44 | 6.3 | 42 |
| 79 | Modest Interference with Actin Dynamics in Primary T Cell Activation by Antigen Presenting Cells Preferentially Affects Lamellal Signaling. *PLoS ONE*, **2015**, 10, e0133231 | 3.7 | 6 |
| 78 | Important steps in a Correlative Light Electron Microscopy Experiment. *Microscopy and Microanalysis*, **2015**, 21, 387-388 | 0.5 | |
| 77 | Using size-selected gold clusters on graphene oxide films to aid cryo-transmission electron tomography alignment. *Scientific Reports*, **2015**, 5, 9234 | 4.9 | 5 |
| 76 | ESCRT-III controls nuclear envelope reformation. *Nature*, **2015**, 522, 236-9 | 50.4 | 245 |
| 75 | Early Signaling in Primary T Cells Activated by Antigen Presenting Cells Is Associated with a Deep and Transient Lamellal Actin Network. *PLoS ONE*, **2015**, 10, e0133299 | 3.7 | 11 |
| 74 | Development of a quantitative Correlative Light Electron Microscopy technique to study GLUT4 trafficking. *Protoplasma*, **2014**, 251, 403-16 | 3.4 | 14 |

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|---|---|---|---|
| 73 | Joint denoising and contrast enhancement for light microscopy image sequences **2014**, | | 1 |
| 72 | Lactose as a "Trojan horse" for quantum dot cell transport. *Angewandte Chemie - International Edition*, **2014**, 53, 810-4 | 16.4 | 56 |
| 71 | A novel framework for segmentation of secretory granules in electron micrographs. *Medical Image Analysis*, **2014**, 18, 411-24 | 15.4 | 5 |
| 70 | A novel 2D and 3D method for automated insulin granule measurement and its application in assessing accepted preparation methods for electron microscopy. *Journal of Physics: Conference Series*, **2014**, 522, 012022 | 0.3 | |
| 69 | Lactose as a Trojan Horse for Quantum Dot Cell Transport. *Angewandte Chemie*, **2014**, 126, 829-833 | 3.6 | 9 |
| 68 | Retracing in correlative light electron microscopy: where is my object of interest?. *Methods in Cell Biology*, **2014**, 124, 1-21 | 1.8 | 10 |
| 67 | Feature-based registration for correlative light and electron microscopy images **2014**, | | 1 |
| 66 | A 3D cellular context for the macromolecular world. *Nature Structural and Molecular Biology*, **2014**, 21, 841-5 | 17.6 | 33 |
| 65 | The actin-driven spatiotemporal organization of T-cell signaling at the system scale. *Immunological Reviews*, **2013**, 256, 133-47 | 11.3 | 23 |
| 64 | Self-assembling cages from coiled-coil peptide modules. *Science*, **2013**, 340, 595-9 | 33.3 | 376 |
| 63 | SNX15 links clathrin endocytosis to the PtdIns3P early endosome independently of the APPL1 endosome. *Journal of Cell Science*, **2013**, 126, 4885-99 | 5.3 | 19 |
| 62 | Infectious bronchitis virus generates spherules from zippered endoplasmic reticulum membranes. *MBio*, **2013**, 4, e00801-13 | 7.8 | 93 |
| 61 | A role for Rab14 in the endocytic trafficking of GLUT4 in 3T3-L1 adipocytes. *Journal of Cell Science*, **2013**, 126, 1931-41 | 5.3 | 59 |
| 60 | Novel standards in the measurement of rat insulin granules combining electron microscopy, high-content image analysis and in silico modelling. *Diabetologia*, **2012**, 55, 1013-23 | 10.3 | 49 |
| 59 | Mucosal reactive oxygen species decrease virulence by disrupting Campylobacter jejuni phosphotyrosine signaling. *Cell Host and Microbe*, **2012**, 12, 47-59 | 23.4 | 91 |
| 58 | Active contour based segmentation for insulin granule cores in electron micrographs of beta islet cells. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2012**, 2012, 5339-42 | 0.9 | |
| 57 | Electron Microscopy (TEM and SEM) **2012**, 59-65 | | |
| 56 | Capturing endocytic segregation events with HPF-CLEM. *Methods in Cell Biology*, **2012**, 111, 175-201 | 1.8 | 15 |

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|---|---|---|---|
| 55 | Cryo-transmission electron microscopy structure of a gigadalton peptide fiber of de novo design. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 13266-71 | 11.5 | 60 |
| 54 | SNX-BAR-mediated endosome tubulation is co-ordinated with endosome maturation. *Traffic*, **2012**, 13, 94-107 | 5.7 | 118 |
| 53 | Molecular mechanism of myosin Va recruitment to dense core secretory granules. *Traffic*, **2012**, 13, 54-69 | 5.7 | 39 |
| 52 | MiR-3120 is a mirror microRNA that targets heat shock cognate protein 70 and auxilin messenger RNAs and regulates clathrin vesicle uncoating. *Journal of Biological Chemistry*, **2012**, 287, 14726-33 | 5.4 | 33 |
| 51 | Introduction to correlative light and electron microscopy. *Methods in Cell Biology*, **2012**, 111, xvii-xix | 1.8 | 38 |
| 50 | Quantitative biological measurement in Transmission Electron Tomography. *Journal of Physics: Conference Series*, **2012**, 371, 012019 | 0.3 | 2 |
| 49 | Molecular etiology of atherogenesis--in vitro induction of lipidosis in macrophages with a new LDL model. *PLoS ONE*, **2012**, 7, e34822 | 3.7 | 11 |
| 48 | SNX-BAR proteins in phosphoinositide-mediated, tubular-based endosomal sorting. *Seminars in Cell and Developmental Biology*, **2010**, 21, 371-80 | 7.5 | 123 |
| 47 | Intracellular membrane traffic at high resolution. *Methods in Cell Biology*, **2010**, 96, 619-48 | 1.8 | 42 |
| 46 | The use of markers for correlative light electron microscopy. *Protoplasma*, **2010**, 244, 91-7 | 3.4 | 45 |
| 45 | Organisation of human ER-exit sites: requirements for the localisation of Sec16 to transitional ER. *Journal of Cell Science*, **2009**, 122, 2924-34 | 5.3 | 115 |
| 44 | Nanoparticles can cause DNA damage across a cellular barrier. *Nature Nanotechnology*, **2009**, 4, 876-83 | 28.7 | 303 |
| 43 | The retromer coat complex coordinates endosomal sorting and dynein-mediated transport, with carrier recognition by the trans-Golgi network. *Developmental Cell*, **2009**, 17, 110-22 | 10.2 | 214 |
| 42 | Studying intracellular transport using high-pressure freezing and Correlative Light Electron Microscopy. *Seminars in Cell and Developmental Biology*, **2009**, 20, 910-9 | 7.5 | 62 |
| 41 | PKCalpha regulates platelet granule secretion and thrombus formation in mice. *Journal of Clinical Investigation*, **2009**, 119, 399-407 | 15.9 | 124 |
| 40 | Moving EM: the Rapid Transfer System as a new tool for correlative light and electron microscopy and high throughput for high-pressure freezing. *Journal of Microscopy*, **2008**, 230, 317-28 | 1.9 | 134 |
| 39 | Efficient coupling of Sec23-Sec24 to Sec13-Sec31 drives COPII-dependent collagen secretion and is essential for normal craniofacial development. *Journal of Cell Science*, **2008**, 121, 3025-34 | 5.3 | 132 |
| 38 | High-pressure Freezing in CLEM. *Imaging & Microscopy*, **2007**, 9, 49-51 | | |

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|---|---|---|---|
| 37 | Recent advances in high-pressure freezing: equipment- and specimen-loading methods. *Methods in Molecular Biology*, **2007**, 369, 143-73 | 1.4 | 107 |
| 36 | Mice lacking the nuclear pore complex protein ALADIN show female infertility but fail to develop a phenotype resembling human triple A syndrome. *Molecular and Cellular Biology*, **2006**, 26, 1879-87 | 4.8 | 31 |
| 35 | FAPP2, cilium formation, and compartmentalization of the apical membrane in polarized Madin-Darby canine kidney (MDCK) cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 18556-61 | 11.5 | 174 |
| 34 | Phase coexistence and connectivity in the apical membrane of polarized epithelial cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 329-34 | 11.5 | 148 |
| 33 | Caveolin-1 is required for fatty acid translocase (FAT/CD36) localization and function at the plasma membrane of mouse embryonic fibroblasts. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2006**, 1761, 416-23 | 5 | 110 |
| 32 | Alzheimer's disease beta-amyloid peptides are released in association with exosomes. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 11172-7 | 11.5 | 928 |
| 31 | Correlative Light and Electron Microscopy with High Time Resolution and Ultrastructural Preservation. *Microscopy and Microanalysis*, **2005**, 11, | 0.5 | 2 |
| 30 | Lipids as modulators of proteolytic activity of BACE: involvement of cholesterol, glycosphingolipids, and anionic phospholipids in vitro. *Journal of Biological Chemistry*, **2005**, 280, 36815-23 | 5.4 | 228 |
| 29 | FAPP2 is involved in the transport of apical cargo in polarized MDCK cells. *Journal of Cell Biology*, **2005**, 170, 521-6 | 7.3 | 91 |
| 28 | Caveolin-1 is not essential for biosynthetic apical membrane transport. *Molecular and Cellular Biology*, **2005**, 25, 10087-96 | 4.8 | 39 |
| 27 | Polypyrimidine tract-binding protein promotes insulin secretory granule biogenesis. *Nature Cell Biology*, **2004**, 6, 207-14 | 23.4 | 137 |
| 26 | Long-chain fatty acid uptake into adipocytes depends on lipid raft function. *Biochemistry*, **2004**, 43, 4179-87 | 3.2 | 90 |
| 25 | Islet cell autoantigen of 69 kDa is an arfaptin-related protein associated with the Golgi complex of insulinoma INS-1 cells. *Journal of Biological Chemistry*, **2003**, 278, 26166-73 | 5.4 | 27 |
| 24 | Constitutive activation of Rho proteins by CNF-1 influences tight junction structure and epithelial barrier function. *Journal of Cell Science*, **2003**, 116, 725-42 | 5.3 | 172 |
| 23 | Involvement of caveolin-2 in caveolar biogenesis in MDCK cells. *FEBS Letters*, **2003**, 538, 85-8 | 3.8 | 57 |
| 22 | Clostridium difficile toxins disrupt epithelial barrier function by altering membrane microdomain localization of tight junction proteins. *Infection and Immunity*, **2001**, 69, 1329-36 | 3.7 | 251 |
| 21 | Loss of caveolae, vascular dysfunction, and pulmonary defects in caveolin-1 gene-disrupted mice. *Science*, **2001**, 293, 2449-52 | 33.3 | 1303 |
| 20 | Induction of caveolae in the apical plasma membrane of Madin-Darby canine kidney cells. *Journal of Cell Biology*, **2000**, 148, 727-39 | 7.3 | 101 |

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|---|---|---|---|
| 19 | Apical membrane targeting of Nedd4 is mediated by an association of its C2 domain with annexin XIIIb. *Journal of Cell Biology*, **2000**, 149, 1473-84 | 7.3 | 128 |
| 18 | Tight junctions are membrane microdomains. *Journal of Cell Science*, **2000**, 113, 1771-1781 | 5.3 | 337 |
| 17 | Different properties of two isoforms of annexin XIII in MDCK cells. *Journal of Cell Science*, **2000**, 113, 2607-2618 | 5.3 | 41 |
| 16 | Tight junctions are membrane microdomains. *Journal of Cell Science*, **2000**, 113 ( Pt 10), 1771-81 | 5.3 | 152 |
| 15 | Different properties of two isoforms of annexin XIII in MDCK cells. *Journal of Cell Science*, **2000**, 113 ( Pt 14), 2607-18 | 5.3 | 15 |
| 14 | The mammalian staufen protein localizes to the somatodendritic domain of cultured hippocampal neurons: implications for its involvement in mRNA transport. *Journal of Neuroscience*, **1999**, 19, 288-97 | 6.6 | 225 |
| 13 | Raft association of SNAP receptors acting in apical trafficking in Madin-Darby canine kidney cells. *Proceedings of the National Academy of Sciences of the United States of America*, **1999**, 96, 3734-8 | 11.5 | 213 |
| 12 | Local accumulations of B-50/GAP-43 evoke excessive bleb formation in PC12 cells. *Molecular Neurobiology*, **1999**, 20, 17-28 | 6.2 | 4 |
| 11 | B-50/GAP-43 potentiates cytoskeletal reorganization in raft domains. *Molecular and Cellular Neurosciences*, **1999**, 14, 85-97 | 4.8 | 33 |
| 10 | Lipid domain structure of the plasma membrane revealed by patching of membrane components. *Journal of Cell Biology*, **1998**, 141, 929-42 | 7.3 | 1040 |
| 9 | Caveolin-1 and -2 in the exocytic pathway of MDCK cells. *Journal of Cell Biology*, **1998**, 140, 795-806 | 7.3 | 272 |
| 8 | Annexin XIIIb associates with lipid microdomains to function in apical delivery. *Journal of Cell Biology*, **1998**, 142, 1413-27 | 7.3 | 162 |
| 7 | Ultrastructural co-localization of calmodulin and B-50/growth-associated protein-43 at the plasma membrane of proximal unmyelinated axon shafts studied in the model of the regenerating rat sciatic nerve. *Neuroscience*, **1997**, 79, 1207-18 | 3.9 | 22 |
| 6 | Robert Feulgen Lecture 1997. Lipid microdomains and membrane trafficking in mammalian cells. *Histochemistry and Cell Biology*, **1997**, 108, 211-20 | 2.4 | 66 |
| 5 | Ultrastructural localization of B-50/growth-associated protein-43 to anterogradely transported synaptophysin-positive and calcitonin gene-related peptide-negative vesicles in the regenerating rat sciatic nerve. *Neuroscience*, **1996**, 71, 489-505 | 3.9 | 11 |
| 4 | Ultrastructural evidence for the lack of co-transport of B-50/GAP-43 and calmodulin in myelinated axons of the regenerating rat sciatic nerve. *Journal of Neurocytology*, **1996**, 25, 583-95 | | 8 |
| 3 | The increase in B-50/GAP-43 in regenerating rat sciatic nerve occurs predominantly in unmyelinated axon shafts: a quantitative ultrastructural study. *Journal of Comparative Neurology*, **1995**, 356, 433-43 | 3.4 | 16 |
| 2 | Endocytosis in flight-stimulated adipokinetic cells ofLocusta migratoria. *Cell and Tissue Research*, **1993**, 271, 485-489 | 4.2 | 9 |

# List of Publications

1 Bacterial flagella disrupt host cell membranes and interact with cytoskeletal components 2