

CITATION REPORT

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Measurement of cytosolic, mitochondrial, and Golgi pH in single living cells with green fluorescent proteins

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|-----|--|------|-----------|
| 973 | In Vitro and in Silico Tools To Assess Extent of Cellular Uptake and Lysosomal Sequestration of Respiratory Drugs in Human Alveolar Macrophages. | | |
| 972 | Luminescent Probes for Sensitive Detection of pH Changes in Live Cells through Two Near-Infrared Luminescence Channels. | | |
| 971 | Recognizing death: the phagocytosis of apoptotic cells. 1998 , 8, 365-72 | | 318 |
| 970 | Structural basis of spectral shifts in the yellow-emission variants of green fluorescent protein. 1998 , 6, 1267-77 | | 357 |
| 969 | Seeing the machinery of live cells. 1998 , 280, 1954-5 | | 157 |
| 968 | Dynamics of fluorescence fluctuations in green fluorescent protein observed by fluorescence correlation spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998 , 95, 13573-8 | 11.5 | 491 |
| 967 | Connexin-aequorin chimerae report cytoplasmic calcium environments along trafficking pathways leading to gap junction biogenesis in living COS-7 cells. 1998 , 273, 29822-9 | | 51 |
| 966 | PRIM: proximity imaging of green fluorescent protein-tagged polypeptides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998 , 95, 12312-6 | 11.5 | 91 |
| 965 | Reevaluating the effect of Brefeldin A (BFA) on ganglioside synthesis: the location of GM2 synthase cannot be deduced from the inhibition of GM2 synthesis by BFA. 1999 , 9, 689-95 | | 6 |
| 964 | Two-color GFP expression system for <i>C. elegans</i> . 1999 , 26, 914-8, 920-1 | | 86 |
| 963 | Measurement of intracellular calcium. <i>Physiological Reviews</i> , 1999 , 79, 1089-125 | 47.9 | 588 |
| 962 | Effect of N-terminal alpha-helix formation on the dimerization and intracellular targeting of alanine:glyoxylate aminotransferase. 1999 , 274, 20587-96 | | 39 |
| 961 | Receptor-mediated targeting of fluorescent probes in living cells. 1999 , 274, 7603-6 | | 84 |
| 960 | Dynamic and quantitative Ca ²⁺ measurements using improved cameleons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999 , 96, 2135-40 | 11.5 | 752 |
| 959 | Overexpression of CALNUP (nucleobindin) increases agonist and thapsigargin releasable Ca ²⁺ storage in the Golgi. 1999 , 145, 279-89 | | 120 |
| 958 | NH ₂ -Terminal targeting motifs direct dual specificity A-kinase-anchoring protein 1 (D-AKAP1) to either mitochondria or endoplasmic reticulum. 1999 , 145, 951-9 | | 140 |
| 957 | The Fluorescence Dynamics of Single Molecules of Green Fluorescent Protein. 1999 , 103, 10553-10560 | | 127 |

| | | | |
|-----|---|------|-----|
| 956 | Circular permutation and receptor insertion within green fluorescent proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999 , 96, 11241-6 | 11.5 | 714 |
| 955 | Protonation kinetics of GFP and FITC investigated by FCS [Aspects of the use of fluorescent indicators for measuring pH. 1999 , 249, 259-271 | | 80 |
| 954 | Reporter gene vectors and assays. 1999 , 13, 29-44 | | 60 |
| 953 | Illuminating single molecules in condensed matter. 1999 , 283, 1670-6 | | 976 |
| 952 | pHi regulatory ion transporters: an update on structure, regulation and cell function. 1999 , 55, 1216-29 | | 28 |
| 951 | Fluorescent proteins: powerful tools in phagocyte biology. 1999 , 232, 67-75 | | 10 |
| 950 | Reporter gene technology: the future looks bright. 1999 , 58, 749-57 | | 289 |
| 949 | Cell-based assays and instrumentation for screening ion-channel targets. 1999 , 4, 431-439 | | 160 |
| 948 | Simultaneous detection of multiple green fluorescent proteins in live cells by fluorescence lifetime imaging microscopy. 1999 , 9, 269-72 | | 198 |
| 947 | Sensitivity of the yellow variant of green fluorescent protein to halides and nitrate. 1999 , 9, R628-9 | | 138 |
| 946 | Photobleaching GFP reveals protein dynamics inside live cells. 1999 , 9, 61-5 | | 221 |
| 945 | Using GFP in FRET-based applications. 1999 , 9, 57-60 | | 711 |
| 944 | V-ATPase is a major component of the Golgi complex in the scaly green flagellate <i>Scherffelia dubia</i> . 1999 , 150, 265-81 | | 8 |
| 943 | Optical methods for exploring dynamics of single copies of green fluorescent protein. 1999 , 36, 232-8 | | 37 |
| 942 | Circularly permuted variants of the green fluorescent protein. 1999 , 457, 283-9 | | 108 |
| 941 | Structural and spectral response of green fluorescent protein variants to changes in pH. 1999 , 38, 5296-301 | | 289 |
| 940 | Mitochondrial permeability transition and swelling can occur reversibly without inducing cell death in intact human cells. 1999 , 246, 26-37 | | 147 |
| 939 | The transferrin receptor binding site on HFE, the class I MHC-related protein mutated in hereditary hemochromatosis. 1999 , 289, 1109-18 | | 77 |

| | | | |
|-----|--|------|------|
| 938 | Fluorescence spectroscopy of single biomolecules. 1999 , 283, 1676-83 | | 1744 |
| 937 | Organische Chemie 1998, Teil I. 1999 , 47, 153-175 | | 0 |
| 936 | Reporters of gene expression: autofluorescent proteins. 2001 , Chapter 9, Unit 9.12 | | 1 |
| 935 | Biosynthesis and enzymatic characterization of human SKI-1/S1P and the processing of its inhibitory prosegment. 2000 , 275, 2349-58 | | 72 |
| 934 | Plant cell biology in the new millennium: new tools and new insights. 2000 , 87, 1547-1560 | | 35 |
| 933 | Quantitative Fluorescence Microscopy. 2000 , 23, 229-234 | | 4 |
| 932 | Organelle pH studies using targeted avidin and fluorescein-biotin. 2000 , 7, 197-209 | | 143 |
| 931 | Mitochondria-dependent apoptosis and cellular pH regulation. 2000 , 7, 1155-65 | | 217 |
| 930 | Changes in intramitochondrial and cytosolic pH: early events that modulate caspase activation during apoptosis. 2000 , 2, 318-25 | | 599 |
| 929 | Observing proteins in their natural habitat: the living cell. 2000 , 25, 631-7 | | 102 |
| 928 | Mitochondrial calcium signaling driven by the IP3 receptor. 2000 , 32, 15-25 | | 55 |
| 927 | Ion mapping in plant cells--methods and applications in signal transduction research. 2000 , 210, 347-70 | | 43 |
| 926 | Mitochondria and neuronal survival. <i>Physiological Reviews</i> , 2000 , 80, 315-60 | 47.9 | 994 |
| 925 | Mechanism and cellular applications of a green fluorescent protein-based halide sensor. 2000 , 275, 6047-50 | | 238 |
| 924 | Biochemistry, mutagenesis, and oligomerization of DsRed, a red fluorescent protein from coral. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 11984-9 | 11.5 | 735 |
| 923 | Directed evolution of green fluorescent protein by a new versatile PCR strategy for site-directed and semi-random mutagenesis. 2000 , 28, E78 | | 299 |
| 922 | A secreted fluorescent reporter targeted to pituitary growth hormone cells in transgenic mice. 2000 , 141, 4681-9 | | 55 |
| 921 | Ligand-dependent interactions of coactivators steroid receptor coactivator-1 and peroxisome proliferator-activated receptor binding protein with nuclear hormone receptors can be imaged in live cells and are required for transcription. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 1313-8 | 11.5 | 133 |

| | | |
|-----|--|--------|
| 920 | The low pH in trans-Golgi triggers autocatalytic cleavage of pre-alpha -inhibitor heavy chain precursor. 2000 , 275, 30996-1000 | 26 |
| 919 | Determinants of the pH of the Golgi complex. 2000 , 275, 21025-32 | 100 |
| 918 | Golgi alkalization by the papillomavirus E5 oncoprotein. 2000 , 148, 305-15 | 94 |
| 917 | Molecular cloning and characterization of an intracellular chloride channel in the proximal tubule cell line, LLC-PK1. 2000 , 275, 37765-73 | 31 |
| 916 | The Golgi apparatus segregates from the lysosomal/acrosomal vesicle during rhesus spermiogenesis: structural alterations. 2000 , 219, 334-49 | 69 |
| 915 | Crystallographic and energetic analysis of binding of selected anions to the yellow variants of green fluorescent protein. 2000 , 301, 157-71 | 143 |
| 914 | Green fluorescent protein as a reporter for macromolecular localization in bacterial cells. 2000 , 20, 62-72 | 60 |
| 913 | GOLAC: an endogenous anion channel of the Golgi complex. <i>Biophysical Journal</i> , 2000 , 78, 2918-28 | 2.9 34 |
| 912 | Fluorescence techniques: shedding light on ligand-receptor interactions. 2000 , 21, 266-73 | 91 |
| 911 | Imaging signal transduction in living cells with GFP-based probes. 2000 , 49, 375-9 | 24 |
| 910 | A New Cell-Permeable Fluorescent Probe for Zn ²⁺ . 2000 , 122, 5644-5645 | 500 |
| 909 | Analysis of mitochondria by flow cytometry. 2001 , 64, 117-28 | 11 |
| 908 | Kinesin Protocols. 2001 , | 3 |
| 907 | Mitochondrial uptake and recycling of ascorbic acid. 2001 , 387, 143-53 | 88 |
| 906 | Identification of a PDZ domain containing Golgi protein, GOPC, as an interaction partner of frizzled. 2001 , 286, 771-8 | 71 |
| 905 | Novel green fluorescent protein-based ratiometric indicators for monitoring pH in defined intracellular microdomains. 2001 , 289, 457-62 | 60 |
| 904 | Alkalinization of acrosome measured by GFP as a pH indicator and its relation to sperm capacitation. 2001 , 237, 222-31 | 61 |
| 903 | Visualizing postendocytic traffic of synaptic vesicles at hippocampal synapses. 2001 , 31, 593-605 | 118 |

| | | | |
|-----|---|-----|-----|
| 902 | Generation of stable mRNA fragments and translation of N-truncated proteins induced by antisense oligodeoxynucleotides. 2001 , 8, 865-72 | | 37 |
| 901 | Reducing the environmental sensitivity of yellow fluorescent protein. Mechanism and applications. 2001 , 276, 29188-94 | | 821 |
| 900 | Proton leak and CFTR in regulation of Golgi pH in respiratory epithelial cells. 2001 , 281, C908-21 | | 41 |
| 899 | Measurement of mitochondrial pH in situ. 2001 , 30, 804-8, 810, 812 passim | | 66 |
| 898 | Green fluorescent protein as a tag for molecular motor proteins. <i>Methods in Molecular Biology</i> , 2001 , 164, 123-31 | 1.4 | 3 |
| 897 | Targeting of reporter molecules to mitochondria to measure calcium, ATP, and pH. 2001 , 65, 353-80 | | 25 |
| 896 | Cell Staining: Fluorescence imaging of mitochondrial structure and function. 2001 , | | |
| 895 | GFP imaging: methodology and application to investigate cellular compartmentation in plants. 2001 , 52, 529-539 | | 13 |
| 894 | Proton pumping in the secretory pathway. 2001 , 182, 159-69 | | 53 |
| 893 | Imaging elongating pollen tubes by green fluorescent protein. 2001 , 14, 9-14 | | 16 |
| 892 | Multiphoton molecular spectroscopy and excited-state dynamics of enhanced green fluorescent protein (EGFP): acid/base specificity. 2001 , 274, 37-55 | | 133 |
| 891 | Expression of pH-sensitive green fluorescent protein in <i>Arabidopsis thaliana</i> . 2001 , 24, 557-63 | | 56 |
| 890 | Role of rRAB22b, an oligodendrocyte protein, in regulation of transport of vesicles from trans Golgi to endocytic compartments. 2001 , 66, 1149-60 | | 54 |
| 889 | Green fluorescent protein as a novel tool to measure apoptosis and necrosis. 2001 , 43, 126-33 | | 52 |
| 888 | Monitoring of in vitro and in vivo translation of green fluorescent protein and its fusion proteins by fluorescence correlation spectroscopy. 2001 , 44, 1-6 | | 25 |
| 887 | Kinetic analysis of maturation and denaturation of DsRed, a coral-derived red fluorescent protein. 2001 , 66, 1342-51 | | 26 |
| 886 | Measurement of secretory vesicle pH reveals intravesicular alkalinization by vesicular monoamine transporter type 2 resulting in inhibition of prohormone cleavage. 2001 , 531, 605-17 | | 28 |
| 885 | Fluorescent verapamil analogue for monitoring acidic intracellular organelles in multidrug resistant and sensitive cells. 2001 , 137, 1-13 | | 1 |

| | | | |
|-----|---|------|-----|
| 884 | Imaging biochemistry inside cells. 2001 , 11, 203-11 | | 403 |
| 883 | Genetically encoded optical sensors of neuronal activity and cellular function. 2001 , 11, 601-7 | | 34 |
| 882 | Selective hydrolysis of a mitochondrial pool of sphingomyelin induces apoptosis. 2001 , 15, 2669-79 | | 220 |
| 881 | Adjacent basic amino acid residues recognized by the COP I complex and ubiquitination govern endoplasmic reticulum to cell surface trafficking of the nicotinic acetylcholine receptor alpha-Subunit. 2001 , 276, 18384-91 | | 66 |
| 880 | Poliovirus protein 3A inhibits tumor necrosis factor (TNF)-induced apoptosis by eliminating the TNF receptor from the cell surface. 2001 , 75, 10409-20 | | 110 |
| 879 | Increasing the intra-Golgi pH of cultured LS174T goblet-differentiated cells mimics the decreased mucin sulfation and increased Thomsen-Friedenreich antigen (Gal beta1-3GalNac alpha-) expression seen in colon cancer. 2001 , 11, 385-93 | | 35 |
| 878 | Mechanisms of pH regulation in the regulated secretory pathway. 2001 , 276, 33027-35 | | 202 |
| 877 | GFP imaging: methodology and application to investigate cellular compartmentation in plants. 2001 , 52, 529-539 | | 164 |
| 876 | Circularly permuted green fluorescent proteins engineered to sense Ca ²⁺ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 3197-202 | 11.5 | 821 |
| 875 | Galpha i3 binding to calnuc on Golgi membranes in living cells monitored by fluorescence resonance energy transfer of green fluorescent protein fusion proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 14961-6 | 11.5 | 49 |
| 874 | Prodomain processing of Asp1 (BACE2) is autocatalytic. 2001 , 276, 23322-8 | | 33 |
| 873 | Mutant prion proteins are partially retained in the endoplasmic reticulum. 2001 , 276, 42409-21 | | 97 |
| 872 | Intracellular pH Regulation. 2001 , 357-372 | | 6 |
| 871 | Physical and functional association of glycolipid N-acetyl-galactosaminyl and galactosyl transferases in the Golgi apparatus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 1625-1630 | 11.5 | 118 |
| 870 | Green fluorescent protein as a novel indicator of antimicrobial susceptibility in <i>Aureobasidium pullulans</i> . 2001 , 67, 5614-20 | | 33 |
| 869 | Expression of a green fluorescent protein variant in mouse oocytes by injection of RNA with an added long poly(A) tail. 2001 , 7, 1039-46 | | 25 |
| 868 | GFP enlightens the study of endomembrane dynamics in plant cells. 2001 , 135, 3-12 | | 1 |
| 867 | Rapid internalization and recycling of the human neuropeptide Y Y(1) receptor. 2002 , 277, 6645-55 | | 93 |

| | | | |
|-----|--|-----|-----|
| 866 | Membrane proximal lysosomes are the major vesicles responsible for calcium-dependent exocytosis in nonsecretory cells. 2002 , 159, 625-35 | | 289 |
| 865 | Importance of C1B domain for lipid messenger-induced targeting of protein kinase C. 2002 , 277, 18037-45 | | 65 |
| 864 | The <i>Caenorhabditis elegans</i> gene, gly-2, can rescue the N-acetylglucosaminyltransferase V mutation of Lec4 cells. 2002 , 277, 22829-38 | | 28 |
| 863 | Measurement of intracellular Ca ²⁺ concentration. 2002 , 70, 453-74 | | 4 |
| 862 | Single-molecule optical spectroscopy of autofluorescent proteins. 2002 , 117, 10925-10937 | | 60 |
| 861 | Role of the N-terminal transmembrane region of the multidrug resistance protein MRP2 in routing to the apical membrane in MDCKII cells. 2002 , 277, 31048-55 | | 62 |
| 860 | Apoptosis Methods in Pharmacology and Toxicology. 2002 , | | |
| 859 | Flow Cytometric and Fluorometric Methods of Quantifying and Characterizing Apoptotic Cell Death. 2002 , 11-36 | | |
| 858 | Regulation of secretory granule pH in insulin-secreting cells. 2002 , 283, C429-37 | | 20 |
| 857 | Green fluorescent protein variants as ratiometric dual emission pH sensors. 1. Structural characterization and preliminary application. 2002 , 41, 15477-88 | | 209 |
| 856 | Visualization of Rab9-mediated vesicle transport from endosomes to the trans-Golgi in living cells. 2002 , 156, 511-8 | | 239 |
| 855 | Fluorescence correlation spectroscopy: the technique and its applications. 2002 , 65, 251-297 | | 628 |
| 854 | Green fluorescent protein (GFP): applications, structure, and related photophysical behavior. 2002 , 102, 759-81 | | 915 |
| 853 | Dynamic behavior of rod photoreceptor disks. <i>Biophysical Journal</i> , 2002 , 83, 1403-12 | 2.9 | 28 |
| 852 | Water secretion associated with exocytosis in endocrine cells revealed by micro forcemetry and evanescent wave microscopy. <i>Biophysical Journal</i> , 2002 , 83, 172-83 | 2.9 | 28 |
| 851 | A large-conductance anion channel of the Golgi complex. <i>Biophysical Journal</i> , 2002 , 83, 278-89 | 2.9 | 29 |
| 850 | Resonance energy transfer in a calcium concentration-dependent cameleon protein. <i>Biophysical Journal</i> , 2002 , 83, 3499-506 | 2.9 | 32 |
| 849 | Tuning FlaSh: redesign of the dynamics, voltage range, and color of the genetically encoded optical sensor of membrane potential. <i>Biophysical Journal</i> , 2002 , 83, 3607-18 | 2.9 | 95 |

| | | | |
|-----|--|-----|------|
| 848 | Molecular brightness characterization of EGFP in vivo by fluorescence fluctuation spectroscopy. <i>Biophysical Journal</i> , 2002 , 82, 133-44 | 2.9 | 208 |
| 847 | Visualization of vacuoles in <i>Aspergillus oryzae</i> by expression of CPY-EGFP. 2002 , 37, 29-38 | | 49 |
| 846 | Improvement and biological applications of fluorescent probes for zinc, ZnAFs. 2002 , 124, 6555-62 | | 366 |
| 845 | pH Homeostasis of cellular organelles. 2002 , 17, 1-5 | | 125 |
| 844 | Assessment of the microbody luminal pH in the filamentous fungus <i>Penicillium chrysogenum</i> . 2002 , 1589, 104-11 | | 13 |
| 843 | Exploitation of intracellular pH gradients in the cellular delivery of macromolecules. 2002 , 91, 903-13 | | 110 |
| 842 | Cloning of the cDNA and mRNA expression of CLRP, a complex leucine repeat protein of the Golgi apparatus expressed by specific neurons of the rat brain. 2002 , 52, 166-73 | | 4 |
| 841 | Chemical approaches to the investigation of cellular systems. 2002 , 10, 829-40 | | 34 |
| 840 | The dynamic microbe: green fluorescent protein brings bacteria to light. 2002 , 45, 1191-6 | | 101 |
| 839 | Imaging into the future: visualizing gene expression and protein interactions with fluorescent proteins. 2002 , 4, E15-20 | | 182 |
| 838 | A greener world: the revolution in plant bioimaging. 2002 , 3, 520-30 | | 109 |
| 837 | Creating new fluorescent probes for cell biology. 2002 , 3, 906-18 | | 1654 |
| 836 | DNA Vector Polyethyleneimine Affects Cell pH and Membrane Potential: A Time-Resolved Fluorescence Microscopy Study. 2003 , 13, 339-347 | | 14 |
| 835 | Ability of small animal cells to support the postintegration phase of human immunodeficiency virus type-1 replication. 2003 , 305, 181-91 | | 16 |
| 834 | Retention of a duplicate gene through changes in subcellular targeting: an electron transport protein homologue localizes to the golgi. 2003 , 57, 222-8 | | 10 |
| 833 | Large-conductance K ⁺ channel openers NS1619 and NS004 as inhibitors of mitochondrial function in glioma cells. 2003 , 65, 1827-34 | | 63 |
| 832 | A cuvette-based fluorometric analysis of mitochondrial membrane potential measured in cultured astrocyte monolayers. <i>Journal of Neuroscience Methods</i> , 2003 , 125, 13-25 | 3 | 34 |
| 831 | Modulation of membrane curvature by phosphatidic acid and lysophosphatidic acid. 2003 , 4, 162-74 | | 280 |

| | | | |
|-----|--|------|-----|
| 830 | Altered distribution of mitochondria impairs calcium homeostasis in rat hippocampal neurons in culture. 2003 , 87, 85-94 | | 39 |
| 829 | Technicolour transgenics: imaging tools for functional genomics in the mouse. 2003 , 4, 613-25 | | 143 |
| 828 | High stability of Discosoma DsRed as compared to Aequorea EGFP. 2003 , 42, 7879-84 | | 89 |
| 827 | A genetically encoded fluorescent reporter reveals oscillatory phosphorylation by protein kinase C. 2003 , 161, 899-909 | | 459 |
| 826 | Quantitative identification of the protonation state of histidines in vitro and in vivo. 2003 , 42, 9227-34 | | 55 |
| 825 | Fluorescent derivatives of the GFP chromophore give a new insight into the GFP fluorescence process. <i>Biophysical Journal</i> , 2003 , 85, 1839-50 | 2.9 | 83 |
| 824 | Quantitative analysis of the fluorescence properties of intrinsically fluorescent proteins in living cells. <i>Biophysical Journal</i> , 2003 , 85, 2566-80 | 2.9 | 80 |
| 823 | Effect of high pressure and reversed micelles on the fluorescent proteins. 2003 , 1622, 192-5 | | 19 |
| 822 | Influenza B virus BM2 protein has ion channel activity that conducts protons across membranes. 2003 , 5, 175-84 | | 126 |
| 821 | Functional gamma-secretase complex assembly in Golgi/trans-Golgi network: interactions among presenilin, nicastrin, Aph1, Pen-2, and gamma-secretase substrates. 2003 , 14, 194-204 | | 91 |
| 820 | Membrane Transporters. 2003 , | | 2 |
| 819 | Acidification and protein traffic. 2003 , 226, 259-319 | | 90 |
| 818 | Cell swelling stimulates cytosol to membrane transposition of ICl _n . 2003 , 278, 50163-74 | | 47 |
| 817 | Spatio-temporal activation of caspase revealed by indicator that is insensitive to environmental effects. 2003 , 160, 235-43 | | 234 |
| 816 | Surface expression of inward rectifier potassium channels is controlled by selective Golgi export. 2003 , 278, 17000-5 | | 62 |
| 815 | SS33410, an inhibitor of V-ATPase, blocks intracellular protein transport of the VSV-G protein in the Golgi compartment. 2003 , 67, 2591-7 | | 4 |
| 814 | Secretory granules are recaptured largely intact after stimulated exocytosis in cultured endocrine cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 2070-5 | 11.5 | 298 |
| 813 | Biochemical characterization of yeast mitochondrial Grx5 monothiol glutaredoxin. 2003 , 278, 25745-51 | | 101 |

| | | | |
|-----|---|------|-----|
| 812 | pH of TGN and recycling endosomes of H ⁺ /K ⁺ -ATPase-transfected HEK-293 cells: implications for pH regulation in the secretory pathway. 2003 , 285, C205-14 | | 40 |
| 811 | Measurement of intracellular pH. <i>Methods in Molecular Biology</i> , 2003 , 227, 259-80 | 1.4 | 11 |
| 810 | From genes to integrative physiology: ion channel and transporter biology in <i>Caenorhabditis elegans</i> . <i>Physiological Reviews</i> , 2003 , 83, 377-415 | 47.9 | 60 |
| 809 | Glutamate decreases mitochondrial size and movement in primary forebrain neurons. 2003 , 23, 7881-8 | | 273 |
| 808 | Generation of optimized yellow and red fluorescent proteins with distinct subcellular localization. 2004 , 36, 418-22, 424 | | 24 |
| 807 | Probing cellular function with bioluminescence imaging. 2004 , | | |
| 806 | Ca ²⁺ -induced Ca ²⁺ release in pancreatic islet beta-cells: critical evaluation of the use of endoplasmic reticulum-targeted "cameleons". 2004 , 145, 4540-9 | | 40 |
| 805 | Subcellular localization and calcium and pH requirements for proteolytic processing of the Hendra virus fusion protein. 2004 , 78, 9154-63 | | 47 |
| 804 | Energy substrate modulates mitochondrial structure and oxidative capacity in cancer cells. 2004 , 64, 985-93 | | 615 |
| 803 | The pH of the secretory pathway: measurement, determinants, and regulation. 2004 , 19, 207-15 | | 315 |
| 802 | The uniformity of phagosome maturation in macrophages. 2004 , 164, 185-94 | | 144 |
| 801 | The peroxisomal lumen in <i>Saccharomyces cerevisiae</i> is alkaline. 2004 , 117, 4231-7 | | 59 |
| 800 | Actin dynamics coupled to clathrin-coated vesicle formation at the trans-Golgi network. 2004 , 165, 781-8 | | 108 |
| 799 | Mitochondrial pH monitored by a new engineered green fluorescent protein mutant. 2004 , 279, 11521-9 | | 195 |
| 798 | Live cell imaging of Gs and the beta2-adrenergic receptor demonstrates that both alphas and beta1gamma7 internalize upon stimulation and exhibit similar trafficking patterns that differ from that of the beta2-adrenergic receptor. 2004 , 279, 44101-12 | | 92 |
| 797 | Multivesicular bodies as a platform for formation of the Marburg virus envelope. 2004 , 78, 12277-87 | | 86 |
| 796 | Structure-function analysis of the presumptive <i>Arabidopsis</i> auxin permease AUX1. 2004 , 16, 3069-83 | | 261 |
| 795 | The mtDNA T8993G (NARP) mutation results in an impairment of oxidative phosphorylation that can be improved by antioxidants. 2004 , 13, 869-79 | | 159 |

| | | |
|-----|--|------|
| 794 | Stubborn GFPs in <i>Nicotiana tabacum</i> vacuoles. 2004 , 138, 37-42 | 11 |
| 793 | Chemical genetic screening identifies sulfonamides that raise organellar pH and interfere with membrane traffic. 2004 , 5, 478-92 | 23 |
| 792 | Targeting of proteins derived from self-processing polyproteins containing multiple signal sequences. 2004 , 5, 616-26 | 77 |
| 791 | Improved monomeric red, orange and yellow fluorescent proteins derived from <i>Discosoma</i> sp. red fluorescent protein. 2004 , 22, 1567-72 | 3513 |
| 790 | The art and design of genetic screens: mammalian culture cells. 2004 , 5, 179-89 | 85 |
| 789 | Recapture after exocytosis causes differential retention of protein in granules of bovine chromaffin cells. 2004 , 560, 413-28 | 136 |
| 788 | Preferential accumulation of GABA _A receptor gamma 2L, not gamma 2S, cytoplasmic loops at rat spinal cord inhibitory synapses. 2004 , 559, 355-65 | 35 |
| 787 | Structural dynamics of synapses in living animals. 2004 , 14, 105-11 | 19 |
| 786 | Photoconversion of the chromophore of a fluorescent protein from <i>Dendronephthya</i> sp. 2004 , 69, 901-8 | 28 |
| 785 | Diversity of the mammalian sodium/proton exchanger SLC9 gene family. 2004 , 447, 549-65 | 506 |
| 784 | Vesicle transport in oligodendrocytes: probable role of Rab40c protein. 2004 , 76, 758-70 | 30 |
| 783 | Visualization of molecular activities inside living cells with fluorescent labels. 2004 , 237, 205-77 | 62 |
| 782 | Investigating mitochondrial redox potential with redox-sensitive green fluorescent protein indicators. 2004 , 279, 13044-53 | 726 |
| 781 | High-level expression of rabbit 15-lipoxygenase induces collapse of the mitochondrial pH gradient in cell culture. 2004 , 43, 15296-302 | 16 |
| 780 | Differential requirements for COPI transport during vertebrate early development. 2004 , 7, 547-58 | 63 |
| 779 | Intracellular angiotensin II fusion protein alters AT1 receptor fusion protein distribution and activates CREB. 2004 , 36, 75-90 | 49 |
| 778 | It's green outside: tracking cell surface proteins with pH-sensitive GFP. 2004 , 27, 257-61 | 103 |
| 777 | Expression of basic fibroblast growth factor isoforms in postmitotic sympathetic neurons: synthesis, intracellular localization and involvement in karyokinesis. 2004 , 124, 561-72 | 21 |

| | | | |
|-----|---|------|-----|
| 776 | Use of chimeric fluorescent proteins and fluorescence resonance energy transfer to monitor cellular responses. 2004 , 94, 866-73 | | 86 |
| 775 | Modelling and bioinformatics studies of the human Kappa-class glutathione transferase predict a novel third glutathione transferase family with similarity to prokaryotic 2-hydroxychromene-2-carboxylate isomerases. 2004 , 379, 541-52 | | 77 |
| 774 | Third-generation GFP biosensors for real-time readout of pH and redox potential in living cells. 2004 , | | |
| 773 | Fluorescence correlation spectroscopy of molecular motions and kinetics. 2005 , 57, 169-90 | | 76 |
| 772 | The role of ARF1 and rab GTPases in polarization of the Golgi stack. 2005 , 6, 803-19 | | 26 |
| 771 | Improved strategies for the delivery of GFP-based Ca ²⁺ sensors into the mitochondrial matrix. 2005 , 37, 129-36 | | 94 |
| 770 | The use of fluorescence microscopy to visualise homotypic interactions of tomato spotted wilt virus nucleocapsid protein in living cells. 2005 , 125, 15-22 | | 17 |
| 769 | Interference with MCP-1 gene expression by vector generated triple helix-forming RNA oligonucleotides. 2005 , 62, 362-76 | | 3 |
| 768 | Development of a quantitative tool for measuring changes in the coefficient of conductivity of plasmodesmata induced by developmental, biotic, and abiotic signals. 2005 , 225, 67-76 | | 59 |
| 767 | Membrane organization and dynamics of the G-protein-coupled serotonin _{1A} receptor monitored using fluorescence-based approaches. 2005 , 15, 785-96 | | 6 |
| 766 | Intracellular drug sequestration events associated with the emergence of multidrug resistance: a mechanistic review. 2005 , 10, 1499-509 | | 80 |
| 765 | Targeting of the FYVE domain to endosomal membranes is regulated by a histidine switch. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 13052-7 | 11.5 | 80 |
| 764 | A mechanism for Ca ²⁺ /calmodulin-dependent protein kinase II clustering at synaptic and nonsynaptic sites based on self-association. 2005 , 25, 6971-83 | | 125 |
| 763 | Regulation of two insulin granule populations within the reserve pool by distinct calcium sources. 2005 , 118, 5873-84 | | 40 |
| 762 | Mechanisms of transport and exocytosis of dense-core granules containing tissue plasminogen activator in developing hippocampal neurons. 2005 , 25, 3095-106 | | 44 |
| 761 | Rapid biogenesis and sensitization of secretory lysosomes in NK cells mediated by target-cell recognition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 123-7 | 11.5 | 36 |
| 760 | Zn ²⁺ inhibits mitochondrial movement in neurons by phosphatidylinositol 3-kinase activation. 2005 , 25, 9507-14 | | 59 |
| 759 | A Rab-E GTPase mutant acts downstream of the Rab-D subclass in biosynthetic membrane traffic to the plasma membrane in tobacco leaf epidermis. 2005 , 17, 2020-36 | | 106 |

| | | | |
|-----|--|------|-----|
| 758 | GFP Sensors. 2005 , 21-40 | | 1 |
| 757 | Molecular Biology and Mutation of Green Fluorescent Protein. 2005 , 83-120 | | 13 |
| 756 | Imaging individual retroviral fusion events: from hemifusion to pore formation and growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 8728-33 | 11.5 | 86 |
| 755 | Four Na ⁺ /H ⁺ exchanger isoforms are distributed to Golgi and post-Golgi compartments and are involved in organelle pH regulation. 2005 , 280, 1561-72 | | 254 |
| 754 | DNA-based biosensor for monitoring pH in vitro and in living cells. 2005 , 44, 7125-30 | | 77 |
| 753 | Kinetics of acid-induced spectral changes in the GFPmut2 chromophore. 2005 , 127, 626-35 | | 52 |
| 752 | Quantitative fluorescence microscopy to probe intracellular microenvironments. 2005 , 8, 350-8 | | 22 |
| 751 | pH difference across the outer mitochondrial membrane measured with a green fluorescent protein mutant. 2005 , 326, 799-804 | | 215 |
| 750 | Old and new data, new issues: the mitochondrial DeltaPsi. 2005 , 1709, 195-202 | | 22 |
| 749 | <i>C. elegans</i> . 2006 , | | |
| 748 | Development of a novel GFP-based ratiometric excitation and emission pH indicator for intracellular studies. <i>Biophysical Journal</i> , 2006 , 90, 3300-14 | 2.9 | 122 |
| 747 | Molecular cloning and functional characterization of beta-N-acetylglucosaminidase genes from Sf9 cells. 2006 , 47, 571-90 | | 31 |
| 746 | Fluorescence emission properties of S-Layer enhanced green fluorescent fusion protein as a function of temperature, pH conditions, and guanidine hydrochloride concentration. 2006 , 7, 3298-301 | | 9 |
| 745 | Fluorescence Sensing. 2006 , 623-673 | | 28 |
| 744 | Structural basis of fluorescence fluctuation dynamics of green fluorescent proteins in acidic environments. 2006 , 110, 24138-46 | | 41 |
| 743 | Does the proteome encode organellar pH?. 2006 , 580, 717-9 | | 26 |
| 742 | Phosphatidylinositol 3-phosphate recognition and membrane docking by the FYVE domain. 2006 , 1761, 868-77 | | 89 |
| 741 | Acid DNases and their interest among apoptotic endonucleases. 2006 , 88, 1851-8 | | 44 |

| | | |
|-----|---|-----|
| 740 | Postsynaptic protein mobility in dendritic spines: long-term regulation by synaptic NMDA receptor activation. 2006 , 31, 702-12 | 126 |
| 739 | Differences in mitochondrial movement and morphology in young and mature primary cortical neurons in culture. 2006 , 141, 727-736 | 108 |
| 738 | The extracellular pH dependency of transport activity by human oligopeptide transporter 1 (hPEPT1) expressed stably in Chinese hamster ovary (CHO) cells: a reason for the bell-shaped activity versus pH. 2006 , 29, 997-1005 | 17 |
| 737 | The Fluorescent Protein Color Palette. 2006 , 33, 21.5.1 | 15 |
| 736 | Subcellular pH and predicted pH-dependent features of proteins. 2006 , 6, 3494-501 | 30 |
| 735 | A fluorescent variant of a protein from the stony coral Montipora facilitates dual-color single-laser fluorescence cross-correlation spectroscopy. 2006 , 24, 577-81 | 251 |
| 734 | Bcl-2 and Ca ²⁺ homeostasis in the endoplasmic reticulum. 2006 , 13, 1409-18 | 209 |
| 733 | Using intrinsically fluorescent proteins for plant cell imaging. 2006 , 45, 599-615 | 102 |
| 732 | Advanced analytical tools in proteomics. 2006 , 556, 69-79 | 11 |
| 731 | The important role of taurine in oxidative metabolism. 2006 , 583, 129-35 | 64 |
| 730 | Fluorophores for Confocal Microscopy: Photophysics and Photochemistry. 2006 , 338-352 | 56 |
| 729 | Two distinct chloride ion requirements in the constitutive protein secretory pathway. 2006 , 85, 825-36 | 2 |
| 728 | High resolution imaging of live mitochondria. 2006 , 1763, 561-75 | 99 |
| 727 | Non-invasive flow cytometric monitoring of pHi in cell culture processes using EGFP. 2006 , 315, 185-90 | 3 |
| 726 | Mutant huntingtin aggregates impair mitochondrial movement and trafficking in cortical neurons. 2006 , 22, 388-400 | 220 |
| 725 | Elevated Golgi pH in breast and colorectal cancer cells correlates with the expression of oncofetal carbohydrate T-antigen. 2006 , 208, 167-74 | 77 |
| 724 | Actin filaments are involved in the maintenance of Golgi cisternae morphology and intra-Golgi pH. 2006 , 63, 778-91 | 51 |
| 723 | Focus on Fluorescent Proteins. 2006 , 3-67 | 0 |

| | | | |
|-----|--|------|-----|
| 722 | Identification of mitochondrial DNA polymorphisms that alter mitochondrial matrix pH and intracellular calcium dynamics. 2006 , 2, e128 | | 171 |
| 721 | CFTR chloride channel drug discovery--inhibitors as antidiarrheals and activators for therapy of cystic fibrosis. 2006 , 12, 2235-47 | | 77 |
| 720 | Intracellular pH measurements in vivo using green fluorescent protein variants. <i>Methods in Molecular Biology</i> , 2006 , 351, 223-39 | 1.4 | 14 |
| 719 | Mitochondrial trafficking to synapses in cultured primary cortical neurons. 2006 , 26, 7035-45 | | 294 |
| 718 | High-throughput and facile assay of antimicrobial peptides using pH-controlled fluorescence resonance energy transfer. 2006 , 50, 3330-5 | | 12 |
| 717 | Ca ²⁺ -dependent control of the permeability properties of the mitochondrial outer membrane and voltage-dependent anion-selective channel (VDAC). 2006 , 281, 17347-17358 | | 160 |
| 716 | Taurine 6. 2006 , | | 4 |
| 715 | Purification, characterization, and cloning of a <i>Spodoptera frugiperda</i> Sf9 beta-N-acetylhexosaminidase that hydrolyzes terminal N-acetylglucosamine on the N-glycan core. 2006 , 281, 19545-60 | | 45 |
| 714 | Structure of immature West Nile virus. 2007 , 81, 6141-5 | | 117 |
| 713 | Autoactivation of matriptase in vitro: requirement for biomembrane and LDL receptor domain. 2007 , 293, C95-105 | | 68 |
| 712 | Cellular Techniques. 2007 , 51-75 | | |
| 711 | Regulation of vacuolar pH and its modulation by some microbial species. 2007 , 71, 452-62 | | 112 |
| 710 | Mechanisms of host cell exit by the intracellular bacterium <i>Chlamydia</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 11430-5 | 11.5 | 341 |
| 709 | Cystic fibrosis transmembrane conductance regulator-independent phagosomal acidification in macrophages. 2007 , 282, 31422-8 | | 87 |
| 708 | pH of the cytoplasm and periplasm of <i>Escherichia coli</i> : rapid measurement by green fluorescent protein fluorimetry. 2007 , 189, 5601-7 | | 240 |
| 707 | Different ionic conditions prompt NHE2 and NHE3 translocation to the plasma membrane. 2007 , 1768, 1023-35 | | 9 |
| 706 | Hypoxia increases BK channel activity in the inner mitochondrial membrane. 2007 , 358, 311-6 | | 37 |
| 705 | pH-dependent binding of the Epsin ENTH domain and the AP180 ANTH domain to PI(4,5)P2-containing bilayers. 2007 , 373, 412-23 | | 38 |

| | | | |
|-----|--|-----|-----|
| 704 | SEC14-like protein 1 interacts with cholinergic transporters. 2007 , 50, 356-64 | | 23 |
| 703 | Unsolved mysteries in membrane traffic. 2007 , 76, 629-45 | | 147 |
| 702 | Green fluorescent protein ground states: the influence of a second protonation site near the chromophore. 2007 , 46, 5494-504 | | 52 |
| 701 | Biosensors for the detection of calcium and pH. 2007 , 80, 297-325 | | 69 |
| 700 | A minimal peptide sequence that targets fluorescent and functional proteins into the mitochondrial intermembrane space. 2007 , 2, 176-86 | | 26 |
| 699 | Development of a pH-Insensitive Glucose Indicator for Continuous Glucose Monitoring. 2007 , | | |
| 698 | Photophysics of Clomeleon by FLIM: discriminating excited state reactions along neuronal development. <i>Biophysical Journal</i> , 2007 , 92, 2237-54 | 2.9 | 46 |
| 697 | pH-dependent fluorescence of uncharged benzothiazole-based dyes binding to DNA. 2007 , 6, 1197-201 | | 11 |
| 696 | The fluorescent protein color palette. 2007 , Chapter 21, Unit 21.5 | | 46 |
| 695 | Rational design of analyte channels of the green fluorescent protein for biosensor applications. 2007 , 3, 463-70 | | 16 |
| 694 | Imaging FRET standards by steady-state fluorescence and lifetime methods. 2007 , 70, 1010-21 | | 38 |
| 693 | Properties and molecular evolution of human GLUD2 (neural and testicular tissue-specific) glutamate dehydrogenase. 2007 , 85, 1101-9 | | 19 |
| 692 | Properties and molecular evolution of human GLUD2 (neural and testicular tissue-specific) glutamate dehydrogenase. 2007 , 85, 3398-406 | | 16 |
| 691 | Rate, extent and concentration dependence of histamine-evoked Weibel-Palade body exocytosis determined from individual fusion events in human endothelial cells. 2007 , 583, 195-212 | | 61 |
| 690 | Meltrin beta (ADAM19) mediates ectodomain shedding of Neuregulin beta1 in the Golgi apparatus: fluorescence correlation spectroscopic observation of the dynamics of ectodomain shedding in living cells. 2007 , 12, 329-43 | | 58 |
| 689 | Calcium in the Golgi apparatus. 2007 , 41, 405-16 | | 90 |
| 688 | Inhalable microparticles containing large payload of anti-tuberculosis drugs. 2007 , 32, 140-50 | | 146 |
| 687 | Tomato spotted wilt virus Gc and N proteins interact in vivo. 2007 , 357, 115-23 | | 35 |

| | | | |
|-----|--|-----|-----|
| 686 | Fluorescent protein applications in microscopy. 2007 , 81, 93-113 | | 17 |
| 685 | Identification of a novel group of putative <i>Arabidopsis thaliana</i> beta-(1,3)-galactosyltransferases. 2008 , 68, 43-59 | | 68 |
| 684 | Detecting mitochondrial RNA and other cellular events in living cells. 2008 , 391, 1591-8 | | 1 |
| 683 | A genetically encoded ratiometric sensor to measure extracellular pH in microdomains bounded by basolateral membranes of epithelial cells. 2008 , 457, 233-42 | | 26 |
| 682 | Rapid activity-dependent delivery of the neurotrophic protein CPG15 to the axon surface of neurons in intact <i>Xenopus</i> tadpoles. 2008 , 68, 744-59 | | 17 |
| 681 | Structural stability of green fluorescent proteins entrapped in polyelectrolyte nanocapsules. 2008 , 1, 310-9 | | 3 |
| 680 | pH-insensitive glucose indicators. 2008 , 24, 1085-9 | | 12 |
| 679 | Facile evaluation of cell disruption efficiency using pH-controlled fluorescence resonance energy transfer. 2008 , 24, 1186-90 | | 4 |
| 678 | Genetically encoded chloride indicator with improved sensitivity. <i>Journal of Neuroscience Methods</i> , 2008 , 170, 67-76 | 3 | 108 |
| 677 | Fluorescence quantitation of thyrocyte iodide accumulation with the yellow fluorescent protein variant YFP-H148Q/I152L. 2008 , 373, 239-46 | | 16 |
| 676 | Design of a highly specific and noninvasive biosensor suitable for real-time in vivo imaging of mercury (II) uptake. 2008 , 17, 614-22 | | 27 |
| 675 | GPHR is a novel anion channel critical for acidification and functions of the Golgi apparatus. 2008 , 10, 1135-45 | | 127 |
| 674 | Direct measurement of protein dynamics inside cells using a rationally designed photoconvertible protein. 2008 , 5, 339-45 | | 81 |
| 673 | Functional analysis of the <i>Arabidopsis</i> PHT4 family of intracellular phosphate transporters. 2008 , 177, 889-898 | | 198 |
| 672 | Detection of intracellular phosphatidylserine in living cells. 2008 , 104, 1271-9 | | 18 |
| 671 | Protonophore- and pH-insensitive glucose and sucrose accumulation detected by FRET nanosensors in <i>Arabidopsis</i> root tips. 2008 , 56, 948-62 | | 97 |
| 670 | Mitochondrial peroxiredoxin 3 is rapidly oxidized in cells treated with isothiocyanates. 2008 , 45, 494-502 | | 53 |
| 669 | A 20-nm step toward the cell membrane preceding exocytosis may correspond to docking of tethered granules. <i>Biophysical Journal</i> , 2008 , 94, 2891-905 | 2.9 | 30 |

| | | | |
|-----|---|-----|-----|
| 668 | Membrane deformation under local pH gradient: mimicking mitochondrial cristae dynamics. <i>Biophysical Journal</i> , 2008 , 95, 4924-33 | 2.9 | 133 |
| 667 | pHlameleons: a family of FRET-based protein sensors for quantitative pH imaging. 2008 , 47, 13115-26 | | 69 |
| 666 | Analysis of endocytic trafficking by single-cell fluorescence ratio imaging. 2008 , Chapter 15, Unit 15.13 | | 15 |
| 665 | EAAT2 density at the astrocyte plasma membrane and Ca(2 +)-regulated exocytosis. 2008 , 25, 203-15 | | 38 |
| 664 | Genetically encoded calcium indicators. 2008 , 108, 1550-64 | | 233 |
| 663 | An integrase of endogenous retrovirus is involved in maternal mitochondrial DNA inheritance of the mouse. 2008 , 366, 206-11 | | 6 |
| 662 | Hidden electronic excited state of enhanced green fluorescent protein. 2008 , 112, 2761-3 | | 42 |
| 661 | Organelle-specific zinc detection using zinpyr-labeled fusion proteins in live cells. 2008 , 130, 15776-7 | | 177 |
| 660 | Kinetic and mechanistic characterization and versatile catalytic properties of mammalian glutaredoxin 2: implications for intracellular roles. 2008 , 47, 11144-57 | | 102 |
| 659 | Human UMP-CMP kinase 2, a novel nucleoside monophosphate kinase localized in mitochondria. 2008 , 283, 1563-1571 | | 53 |
| 658 | Measurement of cytosolic and mitochondrial pH in living cells during reversible metabolic inhibition. 2008 , 73, 226-32 | | 57 |
| 657 | A verapamil-sensitive chloroquine-associated H ⁺ leak from the digestive vacuole in chloroquine-resistant malaria parasites. 2008 , 121, 1624-32 | | 46 |
| 656 | Identification of chondroitin sulfate glucuronyltransferase as chondroitin synthase-3 involved in chondroitin polymerization: chondroitin polymerization is achieved by multiple enzyme complexes consisting of chondroitin synthase family members. 2008 , 283, 11396-406 | | 104 |
| 655 | Hhat is a palmitoyltransferase with specificity for N-palmitoylation of Sonic Hedgehog. 2008 , 283, 22076-88 | | 186 |
| 654 | Ionic determinants of pH of acidic compartments under hypertonic conditions in trout hepatocytes. 2008 , 211, 3306-14 | | 1 |
| 653 | Peroxisomes as novel players in cell calcium homeostasis. 2008 , 283, 15300-8 | | 42 |
| 652 | Exploration of human ORFeome: high-throughput preparation of ORF clones and efficient characterization of their protein products. 2008 , 15, 137-49 | | 47 |
| 651 | Apoptosis-induced alkalinization by the Na ⁺ /H ⁺ exchanger isoform 1 is mediated through phosphorylation of amino acids Ser726 and Ser729. 2008 , 295, C883-96 | | 28 |

| | | | |
|-----|--|------|-----|
| 650 | Conformational change of apolipoprotein A-I and HDL formation from model membranes under intracellular acidic conditions. 2008 , 49, 2419-26 | | 21 |
| 649 | Nonlinear scaling analysis of glucose metabolism in normal and cancer cells. 2008 , 13, 031219 | | 10 |
| 648 | ALISSA: an automated live-cell imaging system for signal transduction analyses. 2009 , 47, 1033-40 | | 8 |
| 647 | Genetically encoded optical sensors for monitoring of intracellular chloride and chloride-selective channel activity. 2009 , 2, 15 | | 62 |
| 646 | Chaperones of F1-ATPase. 2009 , 284, 17138-17146 | | 23 |
| 645 | Visualization of ATP levels inside single living cells with fluorescence resonance energy transfer-based genetically encoded indicators. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 15651-6 | 11.5 | 701 |
| 644 | Red fluorescent protein pH biosensor to detect concentrative nucleoside transport. 2009 , 284, 20499-511 | | 51 |
| 643 | The phosphate transporter PHT4;6 is a determinant of salt tolerance that is localized to the Golgi apparatus of Arabidopsis. 2009 , 2, 535-52 | | 75 |
| 642 | Antioxidant activity of the yeast mitochondrial one-Cys peroxiredoxin is dependent on thioredoxin reductase and glutathione in vivo. 2009 , 29, 3229-40 | | 57 |
| 641 | HUMMR, a hypoxia- and HIF-1alpha-inducible protein, alters mitochondrial distribution and transport. 2009 , 185, 1065-81 | | 68 |
| 640 | Matrix alkalinisation unleashes β -cell mitochondria. 2009 , 1, 154-6 | | 7 |
| 639 | Association of beta-1,3-N-acetylglucosaminyltransferase 1 and beta-1,4-galactosyltransferase 1, trans-Golgi enzymes involved in coupled poly-N-acetyllactosamine synthesis. 2009 , 19, 655-64 | | 28 |
| 638 | Revisiting the role of cystic fibrosis transmembrane conductance regulator and counterion permeability in the pH regulation of endocytic organelles. 2009 , 20, 3125-41 | | 65 |
| 637 | Green light to illuminate signal transduction events. 2009 , 19, 575-86 | | 25 |
| 636 | Calculation of the relative metastabilities of proteins in subcellular compartments of <i>Saccharomyces cerevisiae</i> . 2009 , 3, 75 | | 4 |
| 635 | Transport of mannose-6-phosphate receptors from the trans-Golgi network to endosomes requires Rab31. 2009 , 315, 2215-30 | | 32 |
| 634 | Methods for the determination and quantification of the reactive thiol proteome. 2009 , 47, 675-83 | | 70 |
| 633 | Recent progress in strategies for the creation of protein-based fluorescent biosensors. <i>ChemBioChem</i> , 2009 , 10, 2560-77 | 3.8 | 83 |

| | | |
|-----|---|-----|
| 632 | Elevated Golgi pH impairs terminal N-glycosylation by inducing mislocalization of Golgi glycosyltransferases. 2009 , 220, 144-54 | 108 |
| 631 | Real-time measurement of endosomal acidification by a novel genetically encoded biosensor. 2009 , 393, 1123-33 | 41 |
| 630 | Green fluorescent protein based pH indicators for in vivo use: a review. 2009 , 393, 1107-22 | 152 |
| 629 | Structural changes in the cytoplasmic pore of the Kir1.1 channel during pHi-gating probed by FRET. 2009 , 16, 29 | 4 |
| 628 | Illuminating the life of GPCRs. 2009 , 7, 16 | 52 |
| 627 | Matrix alkalization: a novel mitochondrial signal for sustained pancreatic beta-cell activation. 2009 , 28, 417-28 | 62 |
| 626 | Red-shifted voltage-sensitive fluorescent proteins. 2009 , 16, 1268-77 | 78 |
| 625 | Chapter 5 Visible fluorescent proteins for FRET. 2009 , 33, 171-223 | 8 |
| 624 | A ratiometric pH reporter for imaging protein-dye conjugates in living cells. 2009 , 131, 1642-3 | 178 |
| 623 | Changes of intra-mitochondrial Ca ²⁺ in adult ventricular cardiomyocytes examined using a novel fluorescent Ca ²⁺ indicator targeted to mitochondria. 2009 , 46, 891-901 | 57 |
| 622 | Mechanistic and kinetic details of catalysis of thiol-disulfide exchange by glutaredoxins and potential mechanisms of regulation. 2009 , 11, 1059-81 | 170 |
| 621 | The fluorescent protein palette: tools for cellular imaging. 2009 , 38, 2887-921 | 599 |
| 620 | Hydrophilic fluorescent nanogel thermometer for intracellular thermometry. 2009 , 131, 2766-7 | 420 |
| 619 | Monitoring autophagic degradation of p62/SQSTM1. 2009 , 452, 181-97 | 749 |
| 618 | In vivo measurement of cytosolic and mitochondrial pH using a pH-sensitive GFP derivative in <i>Saccharomyces cerevisiae</i> reveals a relation between intracellular pH and growth. 2009 , 155, 268-278 | 458 |
| 617 | Cytoplasmic pH measurement and homeostasis in bacteria and archaea. 2009 , 55, 1-79, 317 | 297 |
| 616 | Fluorescence resonance energy transfer imaging of PKC signalling in living cells using genetically encoded fluorescent probes. 2009 , 6, | 6 |
| 615 | A near-infrared neutral pH fluorescent probe for monitoring minor pH changes: imaging in living HepG2 and HL-7702 cells. 2009 , 131, 3016-23 | 403 |

| | | | |
|-----|--|---|------|
| 614 | Neutralization of endomembrane compartments in epithelial MDCK cells affects proteoglycan synthesis in the apical secretory pathway. 2009 , 418, 517-28 | | 16 |
| 613 | Fluorescence Mechanism of Fluorescent Proteins Studied by Advanced Molecular Spectroscopy Using Ultrashort Pulse Laser. 2009 , 37, 734-738 | | |
| 612 | Chapter 12 Fluorescence Resonance Energy Transfer in the Studies of Integrin Activation. 2009 , 64, 359-388 | | 1 |
| 611 | Characterization of sensing layer onto the tip tapered fiber. 2009 , | | |
| 610 | FRET-Based Nanosensors for Intracellular Glucose Monitoring. 2010 , 169-181 | | |
| 609 | Quantum Dot Labeling for Assessment of Intracellular Trafficking of Therapeutically Active Molecules. 2010 , 535-567 | | 1 |
| 608 | Visualization of subcellular NAD pools and intra-organellar protein localization by poly-ADP-ribose formation. 2010 , 67, 433-43 | | 57 |
| 607 | Discrimination between alternate membrane protein topologies in living cells using GFP/YFP tagging and pH exchange. 2010 , 67, 3345-54 | | 5 |
| 606 | Trafficking of galectin-3 through endosomal organelles of polarized and non-polarized cells. 2010 , 89, 788-98 | | 48 |
| 605 | The dynamics of mitochondrial Ca ²⁺ fluxes. 2010 , 1797, 1727-35 | | 10 |
| 604 | Integration of a Fluorescent Molecular Biosensor into Self-Assembled Protein Nanowires: A Large Sensitivity Enhancement. 2010 , 122, 7401-7404 | | 8 |
| 603 | Integration of a fluorescent molecular biosensor into self-assembled protein nanowires: a large sensitivity enhancement. 2010 , 49, 7243-6 | | 39 |
| 602 | Genetically encoded Cl-Sensor as a tool for monitoring of Cl-dependent processes in small neuronal compartments. <i>Journal of Neuroscience Methods</i> , 2010 , 193, 14-23 | 3 | 50 |
| 601 | Designs and applications of fluorescent protein-based biosensors. 2010 , 14, 30-6 | | 136 |
| 600 | A role for taurine in mitochondrial function. 2010 , 17 Suppl 1, S23 | | 98 |
| 599 | Seeing graphene-based sheets. 2010 , 13, 28-38 | | 147 |
| 598 | Sensors and regulators of intracellular pH. 2010 , 11, 50-61 | | 1379 |
| 597 | The carboxysome shell is permeable to protons. 2010 , 192, 5881-6 | | 35 |

| | | | |
|-----|---|------|------|
| 596 | Unique characteristics of Ca ²⁺ homeostasis of the trans-Golgi compartment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 9198-203 | 11.5 | 87 |
| 595 | Atypical protein kinase C regulates primary dendrite specification of cerebellar Purkinje cells by localizing Golgi apparatus. 2010 , 30, 16983-92 | | 52 |
| 594 | Carboxylate-modified squaraine dye doped silica fluorescent pH nanosensors. 2010 , 21, 215502 | | 16 |
| 593 | Mitochondrial matrix pH controls oxidative phosphorylation and metabolism-secretion coupling in INS-1E clonal beta cells. 2010 , 24, 4613-26 | | 45 |
| 592 | Selenium compounds are substrates for glutaredoxins: a novel pathway for selenium metabolism and a potential mechanism for selenium-mediated cytotoxicity. 2010 , 429, 85-93 | | 94 |
| 591 | Fluorescence lifetime imaging microscopy in life sciences. 2010 , 21, 102002 | | 115 |
| 590 | Design strategies of fluorescent biosensors based on biological macromolecular receptors. <i>Sensors</i> , 2010 , 10, 1355-76 | 3.8 | 57 |
| 589 | Fluorescent indicators for intracellular pH. 2010 , 110, 2709-28 | | 1264 |
| 588 | pH-sensitivity of YFP provides an intracellular indicator of programmed cell death. 2010 , 6, 27 | | 27 |
| 587 | Structural and functional characterization of the recombinant human mitochondrial trifunctional protein. 2010 , 49, 8608-17 | | 27 |
| 586 | Non-enzymatic NO production in human skin: effect of UVA on cutaneous NO stores. 2010 , 22, 120-35 | | 30 |
| 585 | Measurement of Intracellular pH. <i>Methods in Molecular Biology</i> , 2010 , 637, 311-31 | 1.4 | 42 |
| 584 | Fluorescent proteins and their applications in imaging living cells and tissues. <i>Physiological Reviews</i> , 2010 , 90, 1103-63 | 47.9 | 956 |
| 583 | Membrane Transporters in Drug Discovery and Development. <i>Methods in Molecular Biology</i> , 2010 , | 1.4 | 2 |
| 582 | Development of pH-responsive fluorescent false neurotransmitters. 2010 , 132, 8828-30 | | 113 |
| 581 | Fluorescent protein-based redox probes. 2010 , 13, 621-50 | | 398 |
| 580 | Intracellular coenzymes as natural biomarkers for metabolic activities and mitochondrial anomalies. 2010 , 4, 241-63 | | 273 |
| 579 | A ratiometric fluorescent pH probe based on aggregation-induced emission enhancement and its application in live-cell imaging. 2011 , 21, 13470 | | 101 |

| | | |
|-----|---|-----|
| 578 | Molecular mechanisms of endolysosomal Ca ²⁺ signalling in health and disease. 2011 , 439, 349-74 | 278 |
| 577 | Direct determination of the intracellular oxidation state of plutonium. 2011 , 50, 7591-7 | 14 |
| 576 | The circularly permuted yellow fluorescent protein cpYFP that has been used as a superoxide probe is highly responsive to pH but not superoxide in mitochondria: implications for the existence of superoxide 'flashes'. 2011 , 437, 381-7 | 102 |
| 575 | Primary Photophysical Processes in Chromoproteins. 2011 , 41-68 | |
| 574 | The Proton Sensitivity of Fluorescent Proteins: Towards Intracellular pH Indicators. 2011 , 59-97 | |
| 573 | Evaluating nanoparticle sensor design for intracellular pH measurements. 2011 , 5, 5864-73 | 145 |
| 572 | Intracellular pH is a tightly controlled signal in yeast. 2011 , 1810, 933-44 | 140 |
| 571 | Lipid packing variations induced by pH in cardiolipin-containing bilayers: the driving force for the cristae-like shape instability. 2011 , 1808, 2724-33 | 61 |
| 570 | A conserved histidine in human DNLZ/HEP is required for stimulation of HSPA9 ATPase activity. 2011 , 408, 589-94 | 13 |
| 569 | Imaging intracellular pH in live cells with a genetically encoded red fluorescent protein sensor. 2011 , 133, 10034-7 | 312 |
| 568 | Development of probes for cellular functions using fluorescent proteins and fluorescence resonance energy transfer. 2011 , 80, 357-73 | 176 |
| 567 | Improved and high throughput quantitative measurements of weak GFP expression in transgenic plant materials. 2011 , 30, 1253-60 | 6 |
| 566 | Recent progress in the construction methodology of fluorescent biosensors based on biomolecules. 2011 , | |
| 565 | Mitochondrial membrane potential probes and the proton gradient: a practical usage guide. 2011 , 50, 98-115 | 732 |
| 564 | [pH homeostasis of the Golgi apparatus by GPHR, a novel anion channel]. 2011 , 137, 212-6 | |
| 563 | A weak base-generating system suitable for selective manipulation of lysosomal pH. 2011 , 12, 1490-500 | 10 |
| 562 | SAP97 directs NMDA receptor spine targeting and synaptic plasticity. 2011 , 589, 4491-510 | 37 |
| 561 | TIM23-mediated insertion of transmembrane α -helices into the mitochondrial inner membrane. 2011 , 30, 1003-11 | 37 |

| | | | |
|-----|--|------|-----|
| 560 | Characterization of reduced and oxidized dopamine and 3,4-dihydrophenylacetic acid, on brain mitochondrial electron transport chain activities. 2011 , 1807, 819-28 | | 16 |
| 559 | Ca(2+) signalling in the Golgi apparatus. 2011 , 50, 184-92 | | 93 |
| 558 | Co-compartmentalization of the astroglial glutamate transporter, GLT-1, with glycolytic enzymes and mitochondria. 2011 , 31, 18275-88 | | 151 |
| 557 | Genetically encodable fluorescent biosensors for tracking signaling dynamics in living cells. 2011 , 111, 3614-66 | | 285 |
| 556 | Monitoring of local pH in photodynamic therapy-treated live cancer cells using surface-enhanced Raman scattering probes. 2011 , 42, 1215-1221 | | 26 |
| 555 | (1)H-MRS can detect aberrant glycosylation in tumour cells: a study of the HeLa cell line. 2011 , 24, 1099-110 | | 4 |
| 554 | Establishment of conditional reporter mouse lines at ROSA26 locus for live cell imaging. 2011 , 49, 579-90 | | 164 |
| 553 | Automated and quantitative image analysis of ischemic dendritic blebbing using in vivo 2-photon microscopy data. <i>Journal of Neuroscience Methods</i> , 2011 , 195, 222-31 | 3 | 12 |
| 552 | Evidence that carbonyl stress by methylglyoxal exposure induces DNA damage and spindle aberrations, affects mitochondrial integrity in mammalian oocytes and contributes to oocyte ageing. 2011 , 26, 1843-59 | | 56 |
| 551 | Green Fluorescent Protein-Based Chloride Ion Sensors for In Vivo Imaging. 2011 , 99-124 | | 7 |
| 550 | Dynamic regulation of the mitochondrial proton gradient during cytosolic calcium elevations. 2011 , 286, 11672-84 | | 223 |
| 549 | The mechanistic basis of internal conductance: a theoretical analysis of mesophyll cell photosynthesis and CO ₂ diffusion. 2011 , 156, 90-105 | | 160 |
| 548 | Distantly related plant and nematode core α 1,3-fucosyltransferases display similar trends in structure-function relationships. 2011 , 21, 1401-15 | | 18 |
| 547 | Macromolecular organization of ATP synthase and complex I in whole mitochondria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 14121-6 | 11.5 | 341 |
| 546 | Charge requirements for proton gradient-driven translocation of anthrax toxin. 2011 , 286, 23189-99 | | 30 |
| 545 | The composition of plant mitochondrial supercomplexes changes with oxygen availability. 2011 , 286, 43045-53 | | 73 |
| 544 | Glycerol 3-phosphate alters <i>Trypanosoma brucei</i> hexokinase activity in response to environmental change. 2011 , 286, 33150-7 | | 16 |
| 543 | Sorting protein-related receptor SorLA controls regulated secretion of glial cell line-derived neurotrophic factor. 2011 , 286, 41871-41882 | | 11 |

| | | | |
|-----|--|------|-----|
| 542 | Differential mitochondrial calcium responses in different cell types detected with a mitochondrial calcium fluorescent indicator, mito-GCaMP2. 2011 , 43, 822-30 | | 17 |
| 541 | Synchronized retrovirus fusion in cells expressing alternative receptor isoforms releases the viral core into distinct sub-cellular compartments. 2012 , 8, e1002694 | | 24 |
| 540 | N-cadherin specifies first asymmetry in developing neurons. 2012 , 31, 1893-903 | | 79 |
| 539 | Fluorescent Proteins I. 2012 , | | 9 |
| 538 | Molecular basis for phosphospecific recognition of histone H3 tails by Survivin paralogues at inner centromeres. 2012 , 23, 1457-66 | | 43 |
| 537 | Substrate specificities and intracellular distributions of three N-glycan processing enzymes functioning at a key branch point in the insect N-glycosylation pathway. 2012 , 287, 7084-97 | | 31 |
| 536 | Quantitative imaging of endosome acidification and single retrovirus fusion with distinct pools of early endosomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 17627-32 | 11.5 | 48 |
| 535 | Live imaging of intra- and extracellular pH in plants using pHusion, a novel genetically encoded biosensor. 2012 , 63, 3207-18 | | 109 |
| 534 | Golgi pH, its regulation and roles in human disease. 2012 , 44, 542-54 | | 53 |
| 533 | Perspectives on: SGP symposium on mitochondrial physiology and medicine: the renaissance of mitochondrial pH. 2012 , 139, 415-23 | | 139 |
| 532 | Design and synthesis of a luminescent cyclometalated iridium(III) complex having N,N-diethylamino group that stains acidic intracellular organelles and induces cell death by photoirradiation. 2012 , 51, 12697-706 | | 94 |
| 531 | Carbon Nanoforms. 2012 , 995-1070 | | |
| 530 | Parkin and mitofusins reciprocally regulate mitophagy and mitochondrial spheroid formation. 2012 , 287, 42379-88 | | 95 |
| 529 | Fluorescence lifetime of fluorescent proteins as an intracellular environment probe sensing the cell cycle progression. 2012 , 7, 1385-92 | | 39 |
| 528 | Improving the description of metabolic networks: the TCA cycle as example. 2012 , 26, 3625-36 | | 21 |
| 527 | A luminescent cyclometalated iridium(III) complex accumulates in mitochondria and induces mitochondrial shortening by conjugation to specific protein targets. <i>ChemBioChem</i> , 2012 , 13, 2729-37 | 3.8 | 41 |
| 526 | Ytterbium-substituted transferrin and lactoferrin for near-infrared luminescent pH indication. 2012 , 36, 1545 | | 5 |
| 525 | Measuring mitochondrial function in intact cardiac myocytes. 2012 , 52, 48-61 | | 81 |

| | | | |
|-----|---|------|-----|
| 524 | Fluorescent Proteins from the Oceans: Marine Macromolecules as Advanced Imaging Tools for Biomedical Research. 2012 , 1231-1257 | | 1 |
| 523 | Buffer enhanced bioluminescence resonance energy transfer sensor based on Gaussia luciferase for in vitro detection of protease. 2012 , 724, 104-10 | | 15 |
| 522 | A new mitochondrial pH biosensor for quantitative assessment of pancreatic β -cell function. 2012 , 421, 20-6 | | 5 |
| 521 | Characterization of human phosphodiesterase 12 and identification of a novel 2'-5' oligoadenylate nuclease - The ectonucleotide pyrophosphatase/phosphodiesterase 1. 2012 , 94, 1098-107 | | 12 |
| 520 | Neurodegenerative diseases and exposure to the environmental metals Mn, Pb, and Hg. 2012 , 256, 2147-2163 | 63 | |
| 519 | Carbon dot-based inorganic-organic nanosystem for two-photon imaging and biosensing of pH variation in living cells and tissues. 2012 , 24, 5844-8 | | 448 |
| 518 | The Arabidopsis apyrase AtAPY1 is localized in the Golgi instead of the extracellular space. 2012 , 12, 123 | | 27 |
| 517 | An orange fluorescent protein with a large Stokes shift for single-excitation multicolor FCCS and FRET imaging. 2012 , 134, 7913-23 | | 177 |
| 516 | Measurement of the mitochondrial membrane potential and pH gradient from the redox poise of the hemes of the bc1 complex. <i>Biophysical Journal</i> , 2012 , 102, 1194-203 | 2.9 | 35 |
| 515 | Mitochondrial 'flashes': a radical concept repHined. 2012 , 22, 503-8 | | 70 |
| 514 | Optical pH detection within a protein crystal. 2012 , 116, 9873-81 | | 8 |
| 513 | Versatile approach to β -alkoxy carbamate synthesis and stimulus-responsive alcohol release. 2012 , 10, 7980-5 | | 24 |
| 512 | Intracellular pH Regulation. 2012 , 303-321 | | 10 |
| 511 | In vivo determination of organellar pH using a universal wavelength-based confocal microscopy approach. 2012 , 7, e33229 | | 8 |
| 510 | Functional characterisation of the WW minimal domain for delivering therapeutic proteins by adenovirus dodecahedron. 2012 , 7, e45416 | | 4 |
| 509 | Mapping intracellular temperature using green fluorescent protein. <i>Nano Letters</i> , 2012 , 12, 2107-11 | 11.5 | 302 |
| 508 | Quantitative imaging with fluorescent biosensors. 2012 , 63, 663-706 | | 177 |
| 507 | A Tunable Ratiometric pH Sensor Based on Carbon Nanodots for the Quantitative Measurement of the Intracellular pH of Whole Cells. 2012 , 124, 6538-6541 | | 102 |

| | | | |
|-----|--|-----|-----|
| 506 | Converting a Solvatochromic Fluorophore into a Protein-Based pH Indicator for Extreme Acidity. 2012 , 124, 7794-7799 | | 13 |
| 505 | A tunable ratiometric pH sensor based on carbon nanodots for the quantitative measurement of the intracellular pH of whole cells. 2012 , 51, 6432-5 | | 376 |
| 504 | Converting a solvatochromic fluorophore into a protein-based pH indicator for extreme acidity. 2012 , 51, 7674-9 | | 100 |
| 503 | Genetically targetable and color-switching fluorescent probe. <i>ChemBioChem</i> , 2012 , 13, 1564-8 | 3.8 | 17 |
| 502 | Monitoring the intracellular pH of <i>Zygosaccharomyces bailii</i> by green fluorescent protein. 2012 , 156, 290-5 | | 11 |
| 501 | Identification of a nuclear carbonic anhydrase in <i>Caenorhabditis elegans</i> . 2012 , 1823, 808-17 | | 7 |
| 500 | pH dependence of the fluorescence lifetime of enhanced yellow fluorescent protein in solution and cells. 2012 , 235, 65-71 | | 11 |
| 499 | Quantitative imaging using genetically encoded sensors for small molecules in plants. 2012 , 70, 108-17 | | 19 |
| 498 | A ratiometric and targetable fluorescent sensor for quantification of mitochondrial zinc ions. 2012 , 18, 1050-4 | | 68 |
| 497 | Intracellular organelles in the saga of Ca ²⁺ homeostasis: different molecules for different purposes?. 2012 , 69, 1077-104 | | 46 |
| 496 | GFP tagging sheds light on protein translocation: implications for key methods in cell biology. 2012 , 69, 1025-33 | | 6 |
| 495 | The effect of pH and ADP on ammonia affinity for human glutamate dehydrogenases. 2013 , 28, 127-31 | | 15 |
| 494 | Amino-coumarin based fluorescence ratiometric sensors for acidic pH and their application for living cells imaging. <i>RSC Advances</i> , 2013 , 3, 12204 | 3.7 | 53 |
| 493 | Single-virus fusion experiments reveal proton influx into vaccinia virions and hemifusion lag times. <i>Biophysical Journal</i> , 2013 , 105, 420-31 | 2.9 | 13 |
| 492 | Mitochondrially mediated integrin β 3 protein inactivation limits thrombus growth. 2013 , 288, 30672-30681 | | 24 |
| 491 | Faster nucleation at lower pH: amorphous phase mediated nucleation kinetics. 2013 , 15, 12530-3 | | 29 |
| 490 | Fluorescent protein applications in microscopy. 2013 , 114, 99-123 | | 7 |
| 489 | FRET with Fluorescent Proteins. 2013 , 431-473 | | |

| | | | |
|-----|--|-----|-----|
| 488 | Heterogeneity of Ca ²⁺ handling among and within Golgi compartments. <i>Journal of Molecular Cell Biology</i> , 2013 , 5, 266-76 | 6.3 | 38 |
| 487 | Pentylsine clusters mediate silica targeting of silaffins in <i>Thalassiosira pseudonana</i> . 2013 , 288, 20100-9 | | 49 |
| 486 | Rational design of a colorimetric pH sensor from a soluble retinoic acid chaperone. 2013 , 135, 16111-9 | | 41 |
| 485 | Live intracellular super-resolution imaging using site-specific stains. 2013 , 8, 2643-8 | | 31 |
| 484 | β-Tubulin mutations that cause severe neuropathies disrupt axonal transport. 2013 , 32, 1352-64 | | 69 |
| 483 | A bright and responsive europium probe for determination of pH change within the endoplasmic reticulum of living cells. <i>Chemical Communications</i> , 2013 , 49, 5363-5 | 5.8 | 104 |
| 482 | A novel far-visible and near-infrared pH probe for monitoring near-neutral physiological pH changes: imaging in live cells. 2013 , 1, 4281-4288 | | 74 |
| 481 | Control of Intracellular pH. 2013 , 1773-1835 | | 7 |
| 480 | Mitochondrial energy and redox signaling in plants. 2013 , 18, 2122-44 | | 134 |
| 479 | Polymeric nucleic acid vehicles exploit active interorganelle trafficking mechanisms. 2013 , 7, 347-64 | | 65 |
| 478 | A pH sensitive ratiometric fluorophore and its application for monitoring the intracellular and extracellular pHs simultaneously. 2013 , 1, 661-667 | | 66 |
| 477 | Ratiometric monitoring of transient apoplastic alkalinizations in the leaf apoplast of living <i>Vicia faba</i> plants: chloride primes and PM-H ⁺ -ATPase shapes NaCl-induced systemic alkalinizations. 2013 , 197, 1117-1129 | | 32 |
| 476 | A BODIPY-derived fluorescent probe for cellular pH measurements. 2013 , 435, 106-13 | | 24 |
| 475 | Resolution of lysosomes in living cells with a ratiometric molecular pH-meter. 2013 , 114, 254-60 | | 13 |
| 474 | Biophysical significance of the inner mitochondrial membrane structure on the electrochemical potential of mitochondria. 2013 , 88, 062723 | | 23 |
| 473 | Type II Fp of human mitochondrial respiratory complex II and its role in adaptation to hypoxia and nutrition-deprived conditions. 2013 , 13, 602-9 | | 14 |
| 472 | Fluorescent proteins: shine on, you crazy diamond. 2013 , 135, 2387-402 | | 145 |
| 471 | Methods to Study Mitochondrial Structure and Function. 2013 , 13-27 | | 2 |

| | | | |
|-----|--|-----|-----|
| 470 | Dual-color-emitting green fluorescent protein from the sea cactus <i>Cavernularia obesa</i> and its use as a pH indicator for fluorescence microscopy. 2013 , 28, 582-91 | | 9 |
| 469 | Reversible plasmonic probe sensitive for pH in micro/nanospaces based on i-motif-modulated morpholino-gold nanoparticle assembly. <i>Analytical Chemistry</i> , 2013 , 85, 1053-7 | 7.8 | 40 |
| 468 | Two-color probe to monitor a wide range of pH values in cells. 2013 , 52, 6206-9 | | 198 |
| 467 | RNase P enzymes: divergent scaffolds for a conserved biological reaction. 2013 , 10, 909-14 | | 33 |
| 466 | A near-infrared ratiometric fluorescent probe for rapid and highly sensitive imaging of endogenous hydrogen sulfide in living cells. <i>Chemical Science</i> , 2013 , 4, 2551 | 9.4 | 285 |
| 465 | Novel acid-activated fluorophores reveal a dynamic wave of protons in the intestine of <i>Caenorhabditis elegans</i> . 2013 , 8, 636-42 | | 20 |
| 464 | Synthesis and biological characterization of new aminophosphonates for mitochondrial pH determination by ³¹ P NMR spectroscopy. 2013 , 56, 2487-99 | | 16 |
| 463 | Two DNA nanomachines map pH changes along intersecting endocytic pathways inside the same cell. 2013 , 8, 459-67 | | 271 |
| 462 | Post mortem function of AtMC9 in xylem vessel elements. 2013 , 200, 498-510 | | 89 |
| 461 | Advanced in vivo applications of blue light photoreceptors as alternative fluorescent proteins. 2013 , 12, 1125-34 | | 24 |
| 460 | Mitochondrial Ca ²⁺ uptake induces cyclic AMP generation in the matrix and modulates organelle ATP levels. 2013 , 17, 965-975 | | 140 |
| 459 | Predicting small molecule fluorescent probe localization in living cells using QSAR modeling. 2. Specifying probe, protocol and cell factors; selecting QSAR models; predicting entry and localization. 2013 , 88, 461-76 | | 41 |
| 458 | Full-range intracellular pH sensing by an aggregation-induced emission-active two-channel ratiometric fluorogen. 2013 , 135, 4926-9 | | 357 |
| 457 | Small pH and salt variations radically alter the thermal stability of metal-binding domains in the copper transporter, Wilson disease protein. 2013 , 117, 13038-50 | | 14 |
| 456 | Live imaging of early mouse embryos using fluorescently labeled transgenic mice. <i>Methods in Molecular Biology</i> , 2013 , 1052, 101-8 | 1.4 | 2 |
| 455 | Illumination of the spatial order of intracellular pH by genetically encoded pH-sensitive sensors. <i>Sensors</i> , 2013 , 13, 16736-58 | 3.8 | 90 |
| 454 | Development and properties of genetically encoded pH sensors in plants. 2013 , 4, 523 | | 27 |
| 453 | Fusion of mature HIV-1 particles leads to complete release of a gag-GFP-based content marker and raises the intraviral pH. 2013 , 8, e71002 | | 37 |

| | | |
|-----|---|---------|
| 452 | Tripping on acid: trans-kingdom perspectives on biological acids in immunity and pathogenesis. 2013 , 9, e1003402 | 22 |
| 451 | Intra-Golgi Transport: Roles for Vesicles, Tubules, and Cisternae. 2013 , 2013, 1-15 | 19 |
| 450 | A FRET-based approach for quantitative evaluation of forskolin-induced pendrin trafficking at the plasma membrane in bronchial NCI H292 cells. 2013 , 32, 200-9 | 10 |
| 449 | In vivo intracellular pH measurements in tobacco and Arabidopsis reveal an unexpected pH gradient in the endomembrane system. 2013 , 25, 4028-43 | 119 |
| 448 | Organelle pH in the Arabidopsis endomembrane system. 2013 , 6, 1419-37 | 199 |
| 447 | Distribution and morphological changes of the Golgi apparatus during Drosophila spermatogenesis. 2013 , 55, 635-47 | 3 |
| 446 | The protonophore CCCP interferes with lysosomal degradation of autophagic cargo in yeast and mammalian cells. 2013 , 9, 1862-75 | 60 |
| 445 | The Angelman syndrome protein Ube3a/E6AP is required for Golgi acidification and surface protein sialylation. 2013 , 33, 3799-814 | 34 |
| 444 | Tools and techniques to measure mitophagy using fluorescence microscopy. 2013 , 9, 1653-62 | 92 |
| 443 | Two-Color Probe to Monitor a Wide Range of pH Values in Cells. 2013 , 125, 6326-6329 | 20 |
| 442 | Transgenic mouse lines for non-invasive ratiometric monitoring of intracellular chloride. 2013 , 6, 11 | 16 |
| 441 | Regulation of monocarboxylic acid transporter-1 by cAMP dependent vesicular trafficking in brain microvascular endothelial cells. 2014 , 9, e85957 | 7 |
| 440 | Methodologies in the Era of Cardiovascular Omics 2014 , 15-55 | |
| 439 | Fluorescent probes and nanoparticles for intracellular sensing of pH values. 2014 , 2, 042001 | 53 |
| 438 | Proton-dependent zinc release from intracellular ligands. 2014 , 130, 87-96 | 20 |
| 437 | Keto amphetamine toxicity-focus on the redox reactivity of the cathinone designer drug mephedrone. 2014 , 141, 120-31 | 29 |
| 436 | Citrate synthase is a novel in vivo matrix metalloproteinase-9 substrate that regulates mitochondrial function in the postmyocardial infarction left ventricle. 2014 , 21, 1974-85 | 29 |
| 435 | GAP, an aequorin-based fluorescent indicator for imaging Ca ²⁺ in organelles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 2584-9 | 11.5 49 |

| | | |
|-----|---|---------|
| 434 | eGFP-pHsens as a highly sensitive fluorophore for cellular pH determination by fluorescence lifetime imaging microscopy (FLIM). 2014 , 1837, 1581-93 | 23 |
| 433 | Towards label-free and site-specific probing of the local pH in proteins: pH-dependent deep UV Raman spectra of histidine and tyrosine. 2014 , 1073, 77-81 | 0 |
| 432 | The intracellular Na(+)/H(+) exchanger NHE7 effects a Na(+)-coupled, but not K(+)-coupled proton-loading mechanism in endocytosis. 2014 , 7, 689-96 | 31 |
| 431 | Overlap of Doxycycline Fluorescence with that of the Redox-Sensitive Intracellular Reporter roGFP. 2014 , 24, 305-11 | 10 |
| 430 | Ruthenium dihydroxybipyridine complexes are tumor activated prodrugs due to low pH and blue light induced ligand release. 2014 , 130, 103-11 | 36 |
| 429 | Fluorescence lifetime imaging microscopy in the medical sciences. 2014 , 251, 293-305 | 44 |
| 428 | The odyssey of a young gene: structure-function studies in human glutamate dehydrogenases reveal evolutionary-acquired complex allosteric regulation mechanisms. 2014 , 39, 471-86 | 11 |
| 427 | Phototransformable fluorescent proteins: which one for which application?. 2014 , 142, 19-41 | 16 |
| 426 | Contribution of cysteine aminotransferase and mercaptopyruvate sulfurtransferase to hydrogen sulfide production in peripheral neurons. 2014 , 130, 29-40 | 39 |
| 425 | Inhibition of DNA replication of human papillomavirus by using zinc finger-single-chain FokI dimer hybrid. 2014 , 56, 731-7 | 8 |
| 424 | Two-photon imaging of remyelination of spinal cord axons by engrafted neural precursor cells in a viral model of multiple sclerosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E2349-55 | 11.5 25 |
| 423 | Role of the N-terminus of subunit III in proton uptake in cytochrome c oxidase of <i>Rhodobacter sphaeroides</i> . 2014 , 53, 496-504 | 9 |
| 422 | Mitochondrial biosensors. 2014 , 48, 39-44 | 43 |
| 421 | Design, calibration and application of broad-range optical nanosensors for determining intracellular pH. 2014 , 9, 2841-58 | 34 |
| 420 | Quantitative fluorescence ratio imaging of intralysosomal chloride ions with single excitation/dual maximum emission. 2014 , 20, 11760-7 | 11 |
| 419 | Acetylation dynamics and stoichiometry in <i>Saccharomyces cerevisiae</i> . 2014 , 10, 716 | 174 |
| 418 | Calcium signaling in pancreatic β -cells in health and in Type 2 diabetes. 2014 , 56, 340-61 | 125 |
| 417 | Bioresponsive polymer-based nucleic acid carriers. 2014 , 88, 289-323 | 16 |

| | | | |
|-----|---|-----|-----|
| 416 | Spatiotemporal monitoring endocytic and cytosolic pH gradients with endosomal escaping pH-responsive micellar nanocarriers. 2014 , 15, 4293-301 | | 26 |
| 415 | pH-sensitive perylene bisimide probes for live cell fluorescence lifetime imaging. 2014 , 2, 6792-6801 | | 48 |
| 414 | Making a big thing of a small cell--recent advances in single cell analysis. 2014 , 139, 1237-73 | | 84 |
| 413 | A near-infrared-emitting fluorescent probe for monitoring mitochondrial pH. <i>Chemical Communications</i> , 2014 , 50, 7184-7 | 5.8 | 95 |
| 412 | Response properties of the genetically encoded optical H ₂ O ₂ sensor HyPer. 2014 , 76, 227-41 | | 32 |
| 411 | Studies of pH-Sensitive Optical Properties of the deGFP1 Green Fluorescent Protein Using a Unique Polarizable Force Field. 2014 , 10, 3492-502 | | 4 |
| 410 | Mitochondria-immobilized pH-sensitive off-on fluorescent probe. 2014 , 136, 14136-42 | | 324 |
| 409 | Network thermodynamic curation of human and yeast genome-scale metabolic models. <i>Biophysical Journal</i> , 2014 , 107, 493-503 | 2.9 | 24 |
| 408 | An evaluation of genetically encoded FRET-based biosensors for quantitative metabolite analyses in vivo. 2014 , 191, 250-9 | | 24 |
| 407 | Distinct temporal hierarchies in membrane and cytoskeleton dynamics precede the morphological polarization of developing neurons. 2014 , 127, 4409-19 | | 21 |
| 406 | A cell-surface-anchored ratiometric fluorescent probe for extracellular pH sensing. 2014 , 6, 15329-34 | | 87 |
| 405 | Recent progress in design of protein-based fluorescent biosensors and their cellular applications. 2014 , 9, 2708-17 | | 77 |
| 404 | o-Fluorination of aromatic azides yields improved azido-based fluorescent probes for hydrogen sulfide: synthesis, spectra, and bioimaging. 2014 , 9, 3586-92 | | 38 |
| 403 | Constant pH Molecular Dynamics in Explicit Solvent with Enveloping Distribution Sampling and Hamiltonian Exchange. 2014 , 10, 2738-2750 | | 54 |
| 402 | A new near-infrared neutral pH fluorescent probe for monitoring minor pH changes and its application in imaging of HepG2 cells. 2014 , 172, 1036-44 | | 15 |
| 401 | Physicochemical properties of cells and their effects on intrinsically disordered proteins (IDPs). 2014 , 114, 6661-714 | | 301 |
| 400 | In vivo monitoring of caspase activation using a fluorescence resonance energy transfer-based fluorescent probe. 2014 , 544, 299-325 | | 5 |
| 399 | Acidic intracellular Ca(2+) stores and caveolae in Ca(2+) signaling and diabetes. 2014 , 56, 323-31 | | 9 |

| | | | |
|-----|--|-----|-----|
| 398 | A nanoparticle-based ratiometric and self-calibrated fluorescent thermometer for single living cells. 2014 , 8, 198-206 | | 155 |
| 397 | Fluorescence lifetime imaging of ions in biological tissues. 2014 , 497-534 | | 7 |
| 396 | Promoting convergence: the Phi spiral in abduction of mouse corneal behaviors. 2015 , 20, 22-38 | | 5 |
| 395 | Intracellular Temperature Sensing: An Ultra-bright Luminescent Nanothermometer with Non-sensitivity to pH and Ionic Strength. 2015 , 5, 14879 | | 42 |
| 394 | Expression and intracellular localization of TBC1D9, a Rab GTPase-accelerating protein, in mouse testes. 2015 , 64, 415-24 | | 10 |
| 393 | Structure and function of mitochondrial membrane protein complexes. 2015 , 13, 89 | | 284 |
| 392 | Fluorescent protein-tagged Vpr dissociates from HIV-1 core after viral fusion and rapidly enters the cell nucleus. 2015 , 12, 88 | | 26 |
| 391 | Neuronal acid-induced $[Zn^{2+}]_i$ elevations calibrated using the low-affinity ratiometric probe FuraZin-1. 2015 , 135, 777-86 | | 3 |
| 390 | Fluorescent Protein Approaches in Alpha Herpesvirus Research. 2015 , 7, 5933-61 | | 26 |
| 389 | Nanomaterials-Tools, Technology and Methodology of Nanotechnology Based Biomedical Systems for Diagnostics and Therapy. 2015 , 3, 203-223 | | 13 |
| 388 | Ratiometric detection of pH fluctuation in mitochondria with a new fluorescein/cyanine hybrid sensor. <i>Chemical Science</i> , 2015 , 6, 3187-3194 | 9-4 | 143 |
| 387 | Optogenetics. 2015 , | | 10 |
| 386 | Novel fluorescent and colorimetric pH sensors derived from benzimidazo[2,1-a]benz[de]isoquinoline-7-one-12-carboxylic acid. 2015 , 71, 2736-2742 | | 19 |
| 385 | HOCl can appear in the mitochondria of macrophages during bacterial infection as revealed by a sensitive mitochondrial-targeting fluorescent probe. <i>Chemical Science</i> , 2015 , 6, 4884-4888 | 9-4 | 190 |
| 384 | Fluorescent protein biosensors applied to microphysiological systems. 2015 , 240, 795-808 | | 26 |
| 383 | A new low- Ca^{2+} affinity GAP indicator to monitor high Ca^{2+} in organelles by luminescence. 2015 , 58, 558-64 | | 14 |
| 382 | Fluorescence dynamics of N-terminal Trp residues in polypeptide: intrinsic indicators for monitoring pH. 2015 , 60, 2129-2134 | | 5 |
| 381 | A colorimetric and ratiometric fluorescent pH probe based on ring opening/closing approach and its applications in monitoring cellular pH change. <i>RSC Advances</i> , 2015 , 5, 4099-4102 | 3-7 | 6 |

| | | |
|-----|--|-----|
| 380 | A H+/Ag+ dual-target responsive label-free light-up probe based on a DNA triplex. 2015 , 10, 1126-9 | 14 |
| 379 | Fluorescent probe for proton-coupled DNA folding revealing slow exchange of i-motif and duplex structures. 2015 , 137, 699-707 | 53 |
| 378 | Effect of interior loop length on the thermal stability and pK(a) of i-motif DNA. 2015 , 54, 1364-70 | 43 |
| 377 | pH-dependent transient conformational states control optical properties in cyan fluorescent protein. 2015 , 137, 2892-900 | 14 |
| 376 | Essential role of mitochondrial Ca ²⁺ uniporter in the generation of mitochondrial pH gradient and metabolism-secretion coupling in insulin-releasing cells. 2015 , 290, 4086-96 | 47 |
| 375 | The Erv41-Erv46 complex serves as a retrograde receptor to retrieve escaped ER proteins. 2015 , 208, 197-209 | 28 |
| 374 | Near-infrared fluorescent probes based on piperazine-functionalized BODIPY dyes for sensitive detection of lysosomal pH. 2015 , 3, 2173-2184 | 82 |
| 373 | Interfacing materials science and biology for drug carrier design. 2015 , 27, 2278-97 | 141 |
| 372 | Fluoro amino acids: a rarity in nature, yet a prospect for protein engineering. 2015 , 10, 427-46 | 35 |
| 371 | Intracellular plasma membrane guidance of Photorhabdus asymbiotica toxin is crucial for cell toxicity. 2015 , 29, 2789-802 | 3 |
| 370 | Lysine Acetylation Activates Mitochondrial Aconitase in the Heart. 2015 , 54, 4008-18 | 52 |
| 369 | Optogenetic Sensors for Monitoring Intracellular Chloride. 2015 , 159-183 | 1 |
| 368 | Mechanisms of drug release in nanotherapeutic delivery systems. 2015 , 115, 3388-432 | 334 |
| 367 | Heparanase is a host enzyme required for herpes simplex virus-1 release from cells. 2015 , 6, 6985 | 88 |
| 366 | pH sensitivity of FRET reporters based on cyan and yellow fluorescent proteins. 2015 , 407, 4183-93 | 23 |
| 365 | Cycloalkyl-aminomethylrhodamines: pH dependent photophysical properties tuned by cycloalkane ring size. 2015 , 25, 231-7 | 9 |
| 364 | Intracellular pH imaging in cancer cells in vitro and tumors in vivo using the new genetically encoded sensor SypHer2. 2015 , 1850, 1905-11 | 69 |
| 363 | H ₂ O ₂ release from the very long chain acyl-CoA dehydrogenase. 2015 , 4, 375-80 | 34 |

| | | | |
|-----|--|-----|-----|
| 362 | Bimolecular Fluorescence Complementation (BiFC) Analysis: Advances and Recent Applications for Genome-Wide Interaction Studies. 2015 , 427, 2039-2055 | | 127 |
| 361 | A mitochondrion targeting fluorescent probe for imaging of intracellular superoxide radicals. <i>Chemical Communications</i> , 2015 , 51, 7931-4 | 5.8 | 47 |
| 360 | Membrane trafficking: returning to the fold(ER). 2015 , 25, R288-90 | | 1 |
| 359 | Enhancers: holding out for the right promoter. 2015 , 25, R290-3 | | 3 |
| 358 | Mitochondria-targeted ratiometric fluorescent probe for real time monitoring of pH in living cells. 2015 , 53, 669-78 | | 119 |
| 357 | Differential calcium handling by the cis and trans regions of the Golgi apparatus. 2015 , 466, 455-65 | | 16 |
| 356 | Toward Computationally Designed Self-Reporting Biosensors Using Leave-One-Out Green Fluorescent Protein. 2015 , 54, 6263-73 | | 6 |
| 355 | A novel method to visually determine the intracellular pH of xenografted tumor in vivo by utilizing fluorescent protein as an indicator. 2015 , 464, 1151-1156 | | 4 |
| 354 | Pyrene functionalized molecular beacon with pH-sensitive i-motif in a loop. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 150, 928-33 | 4.4 | 16 |
| 353 | In vivo observation of the pH alternation in mitochondria for various external stimuli. <i>Chemical Communications</i> , 2015 , 51, 17324-7 | 5.8 | 39 |
| 352 | Engineering color variants of green fluorescent protein (GFP) for thermostability, pH-sensitivity, and improved folding kinetics. 2015 , 99, 1205-16 | | 27 |
| 351 | Unveiling how an archetypal fluorescent protein operates: theoretical perspective on the ultrafast excited state dynamics of GFP variant S65T/H148D. 2015 , 119, 2274-91 | | 14 |
| 350 | Multiple Forms of Glutamate Dehydrogenase in Animals: Structural Determinants and Physiological Implications. 2016 , 5, | | 18 |
| 349 | Revisiting Mitochondrial pH with an Improved Algorithm for Calibration of the Ratiometric 5(6)-carboxy-SNARF-1 Probe Reveals Anticooperative Reaction with H ⁺ Ions and Warrants Further Studies of Organellar pH. 2016 , 11, e0161353 | | 12 |
| 348 | Genetically encoded probes for NAD/NADH monitoring. 2016 , 100, 32-42 | | 27 |
| 347 | Development of an OFF-ON-OFF fluorescent pH sensor suitable for the study of intracellular pH. 2016 , 72, 4925-4930 | | 19 |
| 346 | The ubiquitin signal and autophagy: an orchestrated dance leading to mitochondrial degradation. 2016 , 17, 300-16 | | 153 |
| 345 | Controlling the time evolution of mAb N-linked glycosylation - Part II: Model-based predictions. 2016 , 32, 1135-1148 | | 41 |

| | | | |
|-----|--|-----|-----|
| 344 | Geranylgeranyl-regulated transport of the prenyltransferase UBIAD1 between membranes of the ER and Golgi. 2016 , 57, 1286-99 | | 22 |
| 343 | BTeam, a Novel BRET-based Biosensor for the Accurate Quantification of ATP Concentration within Living Cells. 2016 , 6, 39618 | | 58 |
| 342 | An electrochemical platform for localized pH control on demand. 2016 , 16, 2236-44 | | 16 |
| 341 | Design and development of genetically encoded fluorescent sensors to monitor intracellular chemical and physical parameters. 2016 , 8, 121-138 | | 67 |
| 340 | Protein-Based Calcium Sensors. 2016 , 96-111 | | |
| 339 | Discerning the Chemistry in Individual Organelles with Small-Molecule Fluorescent Probes. 2016 , 55, 13658-13699 | | 484 |
| 338 | Redox Imaging Using Cardiac Myocyte-Specific Transgenic Biosensor Mice. 2016 , 119, 1004-1016 | | 32 |
| 337 | Enquiry into the Topology of Plasma Membrane-Localized PIN Auxin Transport Components. 2016 , 9, 1504-1519 | | 16 |
| 336 | Alcohol, Aldehyde, and Ketone Liberation and Intracellular Cargo Release through Peroxide-Mediated Boronate Ester Fragmentation. 2016 , 138, 13353-13360 | | 27 |
| 335 | Wahrnehmung der chemischen Prozesse in einzelnen Organellen mit niedermolekularen Fluoreszenzsonden. 2016 , 128, 13858-13902 | | 41 |
| 334 | A protein-dye hybrid system as a narrow range tunable intracellular pH sensor. <i>Chemical Science</i> , 2016 , 7, 6808-6814 | 9-4 | 20 |
| 333 | Visualizing Compartmentalized Cellular Mg on Demand with Small-Molecule Fluorescent Sensors. 2016 , 138, 14639-14649 | | 37 |
| 332 | Mitochondrial Sirtuin Network Reveals Dynamic SIRT3-Dependent Deacetylation in Response to Membrane Depolarization. 2016 , 167, 985-1000.e21 | | 157 |
| 331 | Genetically Encoded Fluorescent Biosensors to Explore AMPK Signaling and Energy Metabolism. 2016 , 107, 491-523 | | 8 |
| 330 | Preparation of pH-responsive hollow poly(MAA-co-EGDMA) nanocapsules for drug delivery and ultrasound imaging. <i>RSC Advances</i> , 2016 , 6, 103754-103762 | 3-7 | 8 |
| 329 | AMP-activated Protein Kinase. 2016 , | | 7 |
| 328 | Imaging organelle transport in primary hippocampal neurons treated with amyloid- β oligomers. 2016 , 131, 425-51 | | 5 |
| 327 | STED super-resolution imaging of mitochondria labeled with TMRM in living cells. 2016 , 28, 79-87 | | 26 |

| | | | |
|-----|--|-----|-----|
| 326 | Ratiometric Fluorescence Nanoprobes for Subcellular pH Imaging with a Single-Wavelength Excitation in Living Cells. <i>Analytical Chemistry</i> , 2016 , 88, 6743-8 | 7.8 | 94 |
| 325 | Characterization of Drosophila CMP-sialic acid synthetase activity reveals unusual enzymatic properties. 2016 , 473, 1905-16 | | 7 |
| 324 | Biophysical characterization of laforin-carbohydrate interaction. 2016 , 473, 335-45 | | 7 |
| 323 | Doxorubicin Blocks Cardiomyocyte Autophagic Flux by Inhibiting Lysosome Acidification. 2016 , 133, 1668-87 | | 206 |
| 322 | Mic60/mitofilin overexpression alters mitochondrial dynamics and attenuates vulnerability of dopaminergic cells to dopamine and rotenone. 2016 , 91, 247-61 | | 17 |
| 321 | Fatty acid nitroalkenes induce resistance to ischemic cardiac injury by modulating mitochondrial respiration at complex II. 2016 , 8, 1-10 | | 26 |
| 320 | Development of redox-sensitive red fluorescent proteins for imaging redox dynamics in cellular compartments. 2016 , 408, 2901-11 | | 10 |
| 319 | Hyperpolarised organic phosphates as NMR reporters of compartmental pH. <i>Chemical Communications</i> , 2016 , 52, 2288-91 | 5.8 | 5 |
| 318 | Defining the metal binding pathways of human metallothionein 1a: balancing zinc availability and cadmium seclusion. 2016 , 8, 71-81 | | 35 |
| 317 | HyPer Family Probes: State of the Art. 2016 , 24, 731-51 | | 89 |
| 316 | A ratiometric two-photon probe for quantitative imaging of mitochondrial pH values. <i>Chemical Science</i> , 2016 , 7, 766-773 | 9.4 | 92 |
| 315 | Nuclear proton dynamics and interactions with calcium signaling. 2016 , 96, 26-37 | | 9 |
| 314 | Determination of glutathione redox potential and pH value in subcellular compartments of malaria parasites. 2017 , 104, 104-117 | | 16 |
| 313 | Traditional and novel tools to probe the mitochondrial metabolism in health and disease. 2017 , 9, e1373 | | 11 |
| 312 | Luminescent molecular thermometers for the ratiometric sensing of intracellular temperature. 2017 , 36, | | 19 |
| 311 | Characterization of Frex as an NADH sensor for in vivo applications in the presence of NAD and at various pH values. 2017 , 133, 305-315 | | 3 |
| 310 | A targetable fluorescent probe for imaging exogenous and intracellularly formed nitroxyl in mitochondria in living cells. 2017 , 5, 1954-1961 | | 29 |
| 309 | Exploring cells with targeted biosensors. 2017 , 149, 1-36 | | 40 |

| | | | |
|-----|--|-----|----|
| 308 | A genetically encoded toolkit for tracking live-cell histidine dynamics in space and time. 2017 , 7, 43479 | | 26 |
| 307 | Personalized Pathway-Activated Systems Imaging in Oncology. 2017 , | | 1 |
| 306 | Neuronal hyperactivity causes Na/H exchanger-induced extracellular acidification at active synapses. 2017 , 130, 1435-1449 | | 10 |
| 305 | BODIPY-based fluorescent probes for mitochondria-targeted cell imaging with superior brightness, low cytotoxicity and high photostability. 2017 , 141, 530-535 | | 26 |
| 304 | Integrative meta-modeling identifies endocytic vesicles, late endosome and the nucleus as the cellular compartments primarily directing RTK signaling. 2017 , 9, 464-484 | | 18 |
| 303 | Ratiometric fluorescence imaging of nuclear pH in living cells using Hoechst-tagged fluorescein. 2017 , 27, 3127-3130 | | 20 |
| 302 | A novel FbFP-based biosensor toolbox for sensitive in vivo determination of intracellular pH. 2017 , 258, 25-32 | | 25 |
| 301 | HLA-DP constitutively presents endogenous peptides generated by the class I antigen processing pathway. 2017 , 8, 15244 | | 22 |
| 300 | Oligomeric State and Thermal Stability of Apo- and Holo- Human Ornithine ϵ -Aminotransferase. 2017 , 36, 174-185 | | 11 |
| 299 | Photocontrollable fluorogenic probes for visualising near-membrane copper(II) in live cells. <i>RSC Advances</i> , 2017 , 7, 31093-31099 | 3.7 | 9 |
| 298 | Ratiometric imaging of mitochondrial pH in living cells with a colorimetric fluorescent probe based on fluorescein derivative. <i>Sensors and Actuators B: Chemical</i> , 2017 , 253, 58-68 | 8.5 | 34 |
| 297 | Aromatization of 9,10-Dihydroacridine Derivatives: Discovering a Highly Selective and Rapid-Responding Fluorescent Probe for Peroxynitrite. <i>ACS Sensors</i> , 2017 , 2, 501-505 | 9.2 | 39 |
| 296 | Regulation of mitochondrial structure and function by protein import: A current review. 2017 , 24, 107-122 | | 15 |
| 295 | Recent Advances in Development of Genetically Encoded Fluorescent Sensors. 2017 , 589, 1-49 | | 57 |
| 294 | A squalene synthase protein degradation method for improved sesquiterpene production in <i>Saccharomyces cerevisiae</i> . 2017 , 39, 209-219 | | 59 |
| 293 | New tools for redox biology: From imaging to manipulation. 2017 , 109, 167-188 | | 43 |
| 292 | SERS-Fluorescence Dual-Mode pH-Sensing Method Based on Janus Microparticles. 2017 , 9, 39699-39707 | | 43 |
| 291 | Cell-Permeant Large Stokes Shift Dyes for Transfection-Free Multicolor Nanoscopy. 2017 , 139, 12378-12381 | | 77 |

| | | | |
|-----|--|-----|-----|
| 290 | Multi-Parametric Live Cell Microscopy of 3D Tissue Models. 2017 , | | 8 |
| 289 | POLYGALACTURONASE INVOLVED IN EXPANSION3 Functions in Seedling Development, Rosette Growth, and Stomatal Dynamics in. 2017 , 29, 2413-2432 | | 58 |
| 288 | Fluorescence Dynamics of N-Terminal Tryptofan-X Residues in Polypeptide: pH Response. 2017 , 84, 633-638 | | |
| 287 | A Mitochondria-Targeted Ratiometric Biosensor for pH Monitoring and Imaging in Living Cells with Congo-Red-Functionalized Dual-Emission Semiconducting Polymer Dots. <i>Analytical Chemistry</i> , 2017 , 89, 11703-11710 | 7.8 | 39 |
| 286 | Optical Quantification of Intracellular pH in <i>Drosophila melanogaster</i> Malpighian Tubule Epithelia with a Fluorescent Genetically-encoded pH Indicator. 2017 , | | 5 |
| 285 | Intracellular temperature measurements with fluorescent polymeric thermometers. <i>Chemical Communications</i> , 2017 , 53, 10976-10992 | 5.8 | 83 |
| 284 | The Organelle pH Estimate and Measurement in Plant Secretory Pathway. <i>Methods in Molecular Biology</i> , 2017 , 1662, 223-230 | 1.4 | 1 |
| 283 | Solid-phase reverse transfection for intracellular delivery of functionally active proteins. 2017 , 27, 1752-1758 | | 3 |
| 282 | Water-soluble mitochondria-targeting polymeric prodrug micelles for fluorescence monitoring and high intracellular anticancer efficiency. 2017 , 8, 5982-5987 | | 4 |
| 281 | HID-1 controls formation of large dense core vesicles by influencing cargo sorting and -Golgi network acidification. 2017 , 28, 3870-3880 | | 20 |
| 280 | Luminescent Probes for Sensitive Detection of pH Changes in Live Cells through Two Near-Infrared Luminescence Channels. <i>ACS Sensors</i> , 2017 , 2, 924-931 | 9.2 | 36 |
| 279 | Green fluorescent protein with tryptophan-based chromophore stable at low pH. 2017 , 43, 220-222 | | 1 |
| 278 | <i>Listeria monocytogenes</i> cytosolic metabolism promotes replication, survival, and evasion of innate immunity. 2017 , 19, e12762 | | 16 |
| 277 | Responsive hetero-organelle partition conferred fluorogenic sensing of mitochondrial depolarization. <i>Chemical Science</i> , 2017 , 8, 1915-1921 | 9.4 | 32 |
| 276 | A review: the trend of progress about pH probes in cell application in recent years. 2016 , 142, 30-41 | | 129 |
| 275 | New Amino-Acid-Based π -Phosphorylated Nitroxides for Probing Acidic pH in Biological Systems by EPR Spectroscopy. <i>ChemBioChem</i> , 2017 , 18, 300-315 | 3.8 | 3 |
| 274 | Genetically encoded fluorescent sensors reveal dynamic regulation of NADPH metabolism. 2017 , 14, 720-728 | | 143 |
| 273 | Two Distinct Fluorescence States of the Ligand-Induced Green Fluorescent Protein UnaG. <i>Biophysical Journal</i> , 2017 , 113, 2805-2814 | 2.9 | 9 |

| | | | |
|-----|---|-----|-----|
| 272 | Pathobiology and Therapeutic Implications of Tumor Acidosis. 2017 , 24, 2827-2845 | | 10 |
| 271 | Structure-based domain assignment in <i>Leishmania infantum</i> EndoG: characterization of a pH-dependent regulatory switch and a C-terminal extension that largely dictates DNA substrate preferences. 2017 , 45, 9030-9045 | | 5 |
| 270 | Syntaxin 6 is Involved in the Maintenance of Secretory Granules in Parotid Acinar Cells . 2017 , 15, 67-73 | | 1 |
| 269 | Mitochondria-Accessing Ratiometric Fluorescent Probe for Imaging Endogenous Superoxide Anion in Live Cells and <i>Daphnia magna</i> . <i>ACS Sensors</i> , 2018 , 3, 735-741 | 9.2 | 44 |
| 268 | Synthesis and properties of the para-trimethylammonium analogues of green fluorescence protein (GFP) chromophore: The mimic of protonated GFP chromophore. 2018 , 77, 300-310 | | 3 |
| 267 | Effects of hydration on the protonation state of a lysine analog crossing a phospholipid bilayer - insights from molecular dynamics and free-energy calculations. 2018 , 20, 9101-9107 | | 8 |
| 266 | The fumarylacetoacetate hydrolase (FAH) superfamily of enzymes: multifunctional enzymes from microbes to mitochondria. 2018 , 46, 295-309 | | 16 |
| 265 | pH sensing by lipids in membranes: The fundamentals of pH-driven migration, polarization and deformations of lipid bilayer assemblies. 2018 , 1860, 2042-2063 | | 26 |
| 264 | Ultrafast action chemistry in slow motion: atomistic description of the excitation and fluorescence processes in an archetypal fluorescent protein. 2018 , 20, 11067-11080 | | 3 |
| 263 | Redox biosensors in a context of multiparameter imaging. 2018 , 128, 23-39 | | 21 |
| 262 | Highly Sensitive Hill-Type Small-Molecule pH Probe That Recognizes the Reversed pH Gradient of Cancer Cells. <i>Analytical Chemistry</i> , 2018 , 90, 5803-5809 | 7.8 | 38 |
| 261 | Detection of substrate binding of a collagen-specific molecular chaperone HSP47 in solution using fluorescence correlation spectroscopy. 2018 , 497, 279-284 | | 6 |
| 260 | Biochemistry of Peroxynitrite and Protein Tyrosine Nitration. 2018 , 118, 1338-1408 | | 241 |
| 259 | Fluorescence Recovery Allows the Implementation of a Fluorescence Reporter Gene Platform Applicable for the Detection and Quantification of Horizontal Gene Transfer in Anoxic Environments. 2018 , 84, | | 10 |
| 258 | Structure of bovine cytochrome c oxidase in the ligand-free reduced state at neutral pH. 2018 , 74, 92-98 | | 3 |
| 257 | HS and polysulfide metabolism: Conventional and unconventional pathways. 2018 , 149, 77-90 | | 63 |
| 256 | A pH responsive AIE probe for enzyme assays. 2018 , 143, 741-746 | | 15 |
| 255 | Oxidation of the FAD cofactor to the 8-formyl-derivative in human electron-transferring flavoprotein. 2018 , 293, 2829-2840 | | 15 |

| | | | |
|-----|---|-----|-----|
| 254 | A two-photon fluorescent probe records the intracellular pH through DR logic operation via internal calibration. <i>Sensors and Actuators B: Chemical</i> , 2018 , 268, 195-204 | 8.5 | 19 |
| 253 | Targetable Mesoporous Silica Nanoprobes for Mapping the Subcellular Distribution of HSe in Cancer Cells. 2018 , 10, 17345-17351 | | 5 |
| 252 | Sequestered: Design and Construction of Synthetic Organelles. 2018 , 279-306 | | 1 |
| 251 | A biosensor for MAPK-dependent Lin28 signaling. 2018 , 29, 1157-1167 | | 2 |
| 250 | Linkers: The key elements for the creation of efficient nanotherapeutics. 2018 , 270, 260-267 | | 17 |
| 249 | Molecular criteria for mutagenesis by DNA methylation: Some computational elucidations. 2018 , 807, 10-20 | | 3 |
| 248 | Mitochondrial alkaline pH-responsive drug release mediated by Celastrol loaded glycolipid-like micelles for cancer therapy. 2018 , 154, 169-181 | | 74 |
| 247 | Mitochondria-targeted two-photon fluorescent probe for the detection of biothiols in living cells. <i>Sensors and Actuators B: Chemical</i> , 2018 , 255, 193-202 | 8.5 | 37 |
| 246 | The Trans Golgi Region is a Labile Intracellular Ca Store Sensitive to Emetine. 2018 , 8, 17143 | | 3 |
| 245 | High-depth fluorescence imaging using a two-photon FRET system for mitochondrial pH in live cells and tissues. <i>Chemical Communications</i> , 2018 , 54, 13531-13534 | 5.8 | 34 |
| 244 | A ruthenium(ii) complex-cyanine energy transfer scaffold based luminescence probe for ratiometric detection and imaging of mitochondrial peroxynitrite. <i>Chemical Communications</i> , 2018 , 54, 13698-13701 ^{5.8} | 5.8 | 22 |
| 243 | . 2018 , | | 7 |
| 242 | Enzymatic Reaction Generates Biomimic Nanominerals with Superior Bioactivity. 2018 , 14, e1804321 | | 8 |
| 241 | Mitochondria-Targeted DNA Nanoprobe for Real-Time Imaging and Simultaneous Quantification of Ca and pH in Neurons. 2018 , 12, 12357-12368 | | 70 |
| 240 | Estimating Mesophyll Conductance from Measurements of COO Photosynthetic Discrimination and Carbonic Anhydrase Activity. 2018 , 178, 728-752 | | 23 |
| 239 | Genetically Encoded Fluorescent Biosensors Illuminate the Spatiotemporal Regulation of Signaling Networks. 2018 , 118, 11707-11794 | | 186 |
| 238 | Human Cytosolic and Mitochondrial Serine Hydroxymethyltransferase Isoforms in Comparison: Full Kinetic Characterization and Substrate Inhibition Properties. 2018 , 57, 6984-6996 | | 15 |
| 237 | Genetically encoded fluorescent indicators for live cell pH imaging. 2018 , 1862, 2924-2939 | | 31 |

| | | |
|-----|--|--------|
| 236 | A naphthalene-based fluorescent probe with a large Stokes shift for mitochondrial pH imaging. 2018 , 143, 5054-5060 | 21 |
| 235 | Cationic Europium Complexes for Visualizing Fluctuations in Mitochondrial ATP Levels in Living Cells. 2018 , 24, 10745-10755 | 35 |
| 234 | Coumarin/fluorescein-fused fluorescent dyes for rapidly monitoring mitochondrial pH changes in living cells. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018 , 204, 590-597 | 4-4 15 |
| 233 | Direct Visualization of the Conformational Dynamics of Single Influenza Hemagglutinin Trimers. 2018 , 174, 926-937.e12 | 74 |
| 232 | 17 β -Estradiol reduces mitochondrial cAMP content and cytochrome oxidase activity in a phosphodiesterase 2-dependent manner. 2018 , 175, 3876-3890 | 9 |
| 231 | Nitric Oxide Sensors for Biological Applications. 2018 , 6, 8 | 21 |
| 230 | Differential inhibitory effect of a pyrazolopyran compound on human serine hydroxymethyltransferase-amino acid complexes. 2018 , 653, 71-79 | 7 |
| 229 | Dermatan sulfate epimerase 1 and dermatan 4--sulfotransferase 1 form complexes that generate long epimerized 4--sulfated blocks. 2018 , 293, 13725-13735 | 21 |
| 228 | Cancer cell specific inhibition of Wnt/ β -catenin signaling by forced intracellular acidification. 2018 , 4, 37 | 23 |
| 227 | Using cAMP Sensors to Study Cardiac Nanodomains. 2018 , 5, | 17 |
| 226 | Bombyx mori Nuclear Polyhedrosis Virus (BmNPV) Induces Host Cell Autophagy to Benefit Infection. 2017 , 10, | 13 |
| 225 | Highly Selective, Red Emitting BODIPY-Based Fluorescent Indicators for Intracellular Mg Imaging. 2018 , 6, 7247-7256 | 20 |
| 224 | Illuminating pathogen-host intimacy through optogenetics. 2018 , 14, e1007046 | 0 |
| 223 | L-Glutamine uptake is developmentally regulated and is involved in metacyclogenesis in <i>Trypanosoma cruzi</i> . 2018 , 224, 17-25 | 8 |
| 222 | Applications of Reactive Cysteine Profiling. 2019 , 420, 375-417 | 18 |
| 221 | <i>Caenorhabditis elegans</i> BRICHOS Domain-Containing Protein C09F5.1 Maintains Thermotolerance and Decreases Cytotoxicity of A β by Activating the UPR. 2018 , 9, | 1 |
| 220 | Stimuli Responsive Polymeric Systems for Cancer Therapy. 2018 , 10, | 33 |
| 219 | Targeted imaging of the lysosome and endoplasmic reticulum and their pH monitoring with surface regulated carbon dots. 2018 , 10, 12788-12796 | 66 |

| | | | |
|-----|---|------|----|
| 218 | The Human Amyloid Precursor Protein Binds Copper Ions Dominated by a Picomolar-Affinity Site in the Helix-Rich E2 Domain. 2018 , 57, 4165-4176 | | 15 |
| 217 | A super-sensitive ratiometric fluorescent probe for monitoring intracellular subtle pH fluctuation. <i>Sensors and Actuators B: Chemical</i> , 2018 , 273, 167-175 | 8.5 | 21 |
| 216 | Mitochondria-Immobilized Near-Infrared Ratiometric Fluorescent pH Probe To Evaluate Cellular Mitophagy. <i>Analytical Chemistry</i> , 2019 , 91, 11409-11416 | 7.8 | 64 |
| 215 | Mitochondrial Dysfunctions: A Thread Sewing Together Alzheimer's Disease, Diabetes, and Obesity. 2019 , 2019, 7210892 | | 15 |
| 214 | Unique pH-Sensitive RNA Binder for Ratiometric Visualization of Cell Apoptosis. <i>Analytical Chemistry</i> , 2019 , 91, 10056-10063 | 7.8 | 19 |
| 213 | OsNHX5-mediated pH homeostasis is required for post-Golgi trafficking of seed storage proteins in rice endosperm cells. 2019 , 19, 295 | | 5 |
| 212 | Nicotinamide riboside promotes autolysosome clearance in preventing doxorubicin-induced cardiotoxicity. 2019 , 133, 1505-1521 | | 12 |
| 211 | Golgi pH, Ion and Redox Homeostasis: How Much Do They Really Matter?. <i>Frontiers in Cell and Developmental Biology</i> , 2019 , 7, 93 | 5.7 | 44 |
| 210 | Dual-Monitoring Glycosylation and Local pH in Live Cells by Metabolic Oligosaccharide Engineering with a Ratiometric Fluorescent Tag. <i>Analytical Chemistry</i> , 2019 , 91, 13720-13728 | 7.8 | 4 |
| 209 | Cross-reactivity to penicillins in cephalosporin anaphylaxis. 2019 , 123, e532-e534 | | 5 |
| 208 | Metabolism of the Gram-Positive Bacterial Pathogen. 2019 , 7, | | 12 |
| 207 | APOBEC3A Loop 1 Is a Determinant for Single-Stranded DNA Binding and Deamination. 2019 , 58, 3838-3847 | | 3 |
| 206 | Manganese Mapping Using a Fluorescent Mn Sensor and Nanosynchrotron X-ray Fluorescence Reveals the Role of the Golgi Apparatus as a Manganese Storage Site. 2019 , 58, 13724-13732 | | 12 |
| 205 | pH Nanosensor Using Electronic Spins in Diamond. 2019 , 13, 11726-11732 | | 37 |
| 204 | The SLC9A-C Mammalian Na/H Exchanger Family: Molecules, Mechanisms, and Physiology. <i>Physiological Reviews</i> , 2019 , 99, 2015-2113 | 47.9 | 54 |
| 203 | Measuring transcription at a single gene copy reveals hidden drivers of bacterial individuality. 2019 , 4, 2118-2127 | | 15 |
| 202 | Acid-Tolerant Reversibly Switchable Green Fluorescent Protein for Super-resolution Imaging under Acidic Conditions. 2019 , 26, 1469-1479.e6 | | 7 |
| 201 | Intracellular ratiometric temperature sensing using fluorescent carbon dots. <i>Nanoscale Advances</i> , 2019 , 1, 105-113 | 5.1 | 43 |

| | | |
|-----|--|--------|
| 200 | L-Tryptophan functionalized graphene quantum dots as a fluorescence indicator for pH detection in real water. 2019 , 372, 71-77 | 7 |
| 199 | Non-invasive, ratiometric determination of intracellular pH in <i>Pseudomonas</i> species using a novel genetically encoded indicator. 2019 , 12, 799-813 | 10 |
| 198 | Live cell imaging of signaling and metabolic activities. 2019 , 202, 98-119 | 25 |
| 197 | Paired Carboxylic Acids in Enzymes and Their Role in Selective Substrate Binding, Catalysis, and Unusually Shifted p Values. 2019 , 58, 5351-5365 | 6 |
| 196 | pHluorin-BACE1-mCherry Acts as a Reporter for the Intracellular Distribution of Active BACE1 In Vitro and In Vivo. 2019 , 8, | 3 |
| 195 | A Golgi-targeted off-on fluorescent probe for real-time monitoring of pH changes in vivo. <i>Chemical Communications</i> , 2019 , 55, 6685-6688 | 5.8 34 |
| 194 | In Vivo Anticancer Activity of a Rhenium(I) Tricarbonyl Complex. 2019 , 10, 822-827 | 40 |
| 193 | Cell-penetrating peptide sequence and modification dependent uptake and subcellular distribution of green fluorescent protein in different cell lines. 2019 , 9, 6298 | 96 |
| 192 | Zweifel an einem Dogma: Hydrolyse äquatorialer Liganden von PtIV-Komplexen unter physiologischen Bedingungen. 2019 , 131, 7542-7547 | 4 |
| 191 | Structure and Mechanisms of F-Type ATP Synthases. 2019 , 88, 515-549 | 121 |
| 190 | Quantitative Analyses of the Yeast Oxidative Protein Folding Pathway and. 2019 , 31, 261-274 | 2 |
| 189 | Novel application of <i>Macrolampis</i> sp2 firefly luciferase for intracellular pH-biosensing in mammalian cells. 2019 , 18, 1212-1217 | 5 |
| 188 | Endosomal pH favors shedding of membrane-inserted amyloid- β peptide. 2019 , 28, 889-899 | 2 |
| 187 | Structural and evolutionary approaches to the design and optimization of fluorescence-based small molecule biosensors. 2019 , 57, 31-38 | 18 |
| 186 | A Dogma in Doubt: Hydrolysis of Equatorial Ligands of Pt Complexes under Physiological Conditions. 2019 , 58, 7464-7469 | 20 |
| 185 | High-resolution imaging of fluorescent whole mouse brains using stabilised organic media (sDISCO). 2019 , 12, e201800368 | 31 |
| 184 | Molecular Mechanism of Metformin Associated Lactic Acidosis (MALA)- an In Silico Exploration. 2019 , 16, 199-209 | 1 |
| 183 | Reversible Self-Assembly of Nanoprobes in Live Cells for Dynamic Intracellular pH Imaging. 2019 , 13, 1421-1432 | 27 |

| | | | |
|-----|---|-----|----|
| 182 | A Mitochondria-Targeted Ratiometric Fluorescent pH Probe.. 2019 , 2, 1368-1375 | | 18 |
| 181 | Metabolism of the Gram-Positive Bacterial Pathogen <i>Listeria monocytogenes</i> . 2019 , 864-872 | | 1 |
| 180 | Applications of Fluorescent Protein-Based Sensors in Bioimaging. 2019 , 149-183 | | 1 |
| 179 | DNA adducts, genotoxicity mechanism of alkyl compounds in association with forensic dentistry. 2019 , | | 0 |
| 178 | Molecular Imaging with Reporter Genes: Has Its Promise Been Delivered?. 2019 , 60, 1665-1681 | | 17 |
| 177 | OLIVE: A Genetically Encoded Fluorescent Biosensor for Quantitative Imaging of Branched-Chain Amino Acid Levels inside Single Living Cells. <i>ACS Sensors</i> , 2019 , 4, 3333-3342 | 9.2 | 9 |
| 176 | Isomeric Ir(III) complexes for tracking mitochondrial pH fluctuations and inducing mitochondrial dysfunction during photodynamic therapy. 2019 , 48, 17200-17209 | | 12 |
| 175 | Cellular stress is a prerequisite for glucose-induced mitochondrial matrix alkalinization in pancreatic β -cells. 2019 , 481, 71-83 | | 4 |
| 174 | Metabolic flux balance analysis during lactate and glucose concomitant consumption in HEK293 cell cultures. 2019 , 116, 388-404 | | 10 |
| 173 | Redox- and Ligand Binding-Dependent Conformational Ensembles in the Human Apoptosis-Inducing Factor Regulate Its Pro-Life and Cell Death Functions. 2019 , 30, 2013-2029 | | 9 |
| 172 | Interferon-induced transmembrane protein 3 blocks fusion of sensitive but not resistant viruses by partitioning into virus-carrying endosomes. 2019 , 15, e1007532 | | 39 |
| 171 | Analysis of Golgi pH in Chinese hamster ovary cells using ratiometric pH-sensitive fluorescent proteins. 2019 , 116, 1006-1016 | | 10 |
| 170 | A recurrent missense variant in SLC9A7 causes nonsyndromic X-linked intellectual disability with alteration of Golgi acidification and aberrant glycosylation. 2019 , 28, 598-614 | | 16 |
| 169 | A novel near-infrared triggered dual-targeted nanoplatfrom for mitochondrial combined photothermal-chemotherapy of cancer in vitro. 2019 , 30, 035601 | | 17 |
| 168 | Lifetime-based photoconversion of EGFP as a tool for FLIM. 2019 , 1863, 266-277 | | 6 |
| 167 | Cysteine reactivity across the subcellular universe. 2019 , 48, 96-105 | | 37 |
| 166 | Mitochondrial Morphofunction in Mammalian Cells. 2019 , 30, 2066-2109 | | 43 |
| 165 | FRET-based polymer materials for detection of cellular microenvironments. 2020 , 31, 1490-1498 | | 7 |

| | | | |
|-----|---|------|----|
| 164 | Imaging stressed organelles via sugar-conjugated color-switchable pH sensors. 2020 , 145, 1319-1327 | | 5 |
| 163 | SLC4A11 function: evidence for H(OH) and NH-H transport. 2020 , 318, C392-C405 | | 8 |
| 162 | Stimuli responsive nanoplatform with mitochondria-specific multiple model therapeutics for effective tumor treatment. 2020 , 21, 100883 | | 4 |
| 161 | Establishing a sensitive fluorescence-based quantification method for cyclic nucleotides. 2020 , 20, 47 | | |
| 160 | Controlled Supramolecular Assembly Inside Living Cells by Sequential Multistaged Chemical Reactions. 2020 , 142, 15780-15789 | | 17 |
| 159 | Systematic Comparison of Vesicular Targeting Signals Leads to the Development of Genetically Encoded Vesicular Fluorescent Zn and pH Sensors. <i>ACS Sensors</i> , 2020 , 5, 3879-3891 | 9.2 | 2 |
| 158 | DNA-Origami-Based Fluorescence Brightness Standards for Convenient and Fast Protein Counting in Live Cells. <i>Nano Letters</i> , 2020 , 20, 8890-8896 | 11.5 | 2 |
| 157 | An understanding of mitochondria and its role in targeting nanocarriers for diagnosis and treatment of cancer. 2021 , 16, 397-418 | | 5 |
| 156 | Precipitation of Inorganic Salts in Mitochondrial Matrix. 2020 , 10, | | 5 |
| 155 | Dynamic single-cell intracellular pH sensing using a SERS-active nanopipette. 2020 , 145, 4852-4859 | | 10 |
| 154 | Fluorescent Imaging in Medicinal Chemistry. 2020 , | | 1 |
| 153 | In vivo mapping of a GPCR interactome using knockin mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 13105-13116 | 11.5 | 12 |
| 152 | Mitochondrial pH Nanosensors for Metabolic Profiling of Breast Cancer Cell Lines. <i>International Journal of Molecular Sciences</i> , 2020 , 21, | 6.3 | 4 |
| 151 | Characterization of a Bio-sourced, Fluorescent, Ratiometric pH Indicator with Alkaline pK. 2020 , 96, 1176-1181 | | |
| 150 | Real-time tracking of mitochondrial dynamics by a dual-sensitive probe. <i>Sensors and Actuators B: Chemical</i> , 2020 , 320, 128418 | 8.5 | 4 |
| 149 | Cysteine Oxidations in Mitochondrial Membrane Proteins: The Case of VDAC Isoforms in Mammals. <i>Frontiers in Cell and Developmental Biology</i> , 2020 , 8, 397 | 5.7 | 19 |
| 148 | Protein expression-independent response of intensity-based pH-sensitive fluorophores in <i>Escherichia coli</i> . 2020 , 15, e0234849 | | 0 |
| 147 | Lowering the increased intracellular pH of human-induced pluripotent stem cell-derived endothelial cells induces formation of mature Weibel-Palade bodies. 2020 , 9, 758-772 | | 6 |

| | | | |
|-----|---|-----|----|
| 146 | Golgi Acidification by NHE7 Regulates Cytosolic pH Homeostasis in Pancreatic Cancer Cells. 2020 , 10, 822-835 | | 19 |
| 145 | Mitochondrial targeted strategies and their application for cancer and other diseases treatment. 2020 , 50, 271-293 | | 11 |
| 144 | A multifunctional nanoprobe for targeting tumors and mitochondria with singlet oxygen generation and monitoring mitochondrion pH changes in cancer cells by ratiometric fluorescence imaging. <i>Chemical Science</i> , 2020 , 11, 3636-3643 | 9.4 | 19 |
| 143 | Fluorogenic Probe Using a Mislow-Evans Rearrangement for Real-Time Imaging of Hydrogen Peroxide. 2020 , 132, 17588-17594 | | 0 |
| 142 | Regulation of V-ATPase Activity and Organelle pH by Phosphatidylinositol Phosphate Lipids. <i>Frontiers in Cell and Developmental Biology</i> , 2020 , 8, 510 | 5.7 | 19 |
| 141 | Genetically Encoded Tools for Research of Cell Signaling and Metabolism under Brain Hypoxia. 2020 , 9, | | 5 |
| 140 | Fluorogenic Probe Using a Mislow-Evans Rearrangement for Real-Time Imaging of Hydrogen Peroxide. 2020 , 59, 17435-17441 | | 16 |
| 139 | Development of a nanoparticle that releases nucleic acids in response to a mitochondrial environment. 2020 , 52, 67-74 | | 10 |
| 138 | Upconversion nanoparticle-mOrange protein FRET nanoprobe for self-ratiometric/ratiometric determination of intracellular pH, and single cell pH imaging. 2020 , 155, 112115 | | 20 |
| 137 | A versatile and robust surface-poison-resisting Scanning Amperometric Proton Microscopy. 2020 , 875, 113918 | | 1 |
| 136 | Recent advances in endoplasmic reticulum targeting metal complexes. 2020 , 408, 213178 | | 26 |
| 135 | In Situ Fluorescent and Photoacoustic Imaging of Golgi pH to Elucidate the Function of Transmembrane Protein 165. <i>Analytical Chemistry</i> , 2020 , 92, 3103-3110 | 7.8 | 17 |
| 134 | Mitochondrial functions and rare diseases. 2020 , 71, 100842 | | 18 |
| 133 | Hybrid coumarin-difluoroboron dyes for mitochondrial staining. 2020 , 179, 108430 | | 10 |
| 132 | Enhanced-contrast two-photon optogenetic pH sensing and pH-resolved brain imaging. 2021 , 14, e202000301 | | 0 |
| 131 | Revealing Minor pH Changes of Mitochondria by a Highly Sensitive Molecular Fluorescent Probe. 2021 , 16, 342-347 | | 2 |
| 130 | A Single Fluorescent pH Probe for Simultaneous Two-Color Visualization of Nuclei and Mitochondria and Monitoring Cell Apoptosis. <i>ACS Sensors</i> , 2021 , 6, 1552-1559 | 9.2 | 11 |
| 129 | RING domains act as both substrate and enzyme in a catalytic arrangement to drive self-anchored ubiquitination. 2021 , 12, 1220 | | 10 |

| | | | |
|-----|---|-----|----|
| 128 | Reversible Chemosensor for Bioimaging and Biosensing of Zn(II) and hpH in Cells, Larval Zebrafish, and Plants with Dual-Channel Fluorescence Signals. 2021 , 60, 5563-5572 | | 10 |
| 127 | Conformational specificity of opioid receptors is determined by subcellular location irrespective of agonist. | | 0 |
| 126 | Influence of spatial structure on protein damage susceptibility: a bioinformatics approach. 2021 , 11, 4938 | | |
| 125 | SWI/SNF senses carbon starvation with a pH-sensitive low complexity sequence. | | 1 |
| 124 | S6K1 Is Indispensable for Stress-Induced Microtubule Acetylation and Autophagic Flux. 2021 , 10, | | 2 |
| 123 | Excitation spectral microscopy for highly multiplexed fluorescence imaging and quantitative biosensing. | | 0 |
| 122 | Photocytotoxicity of Thiophene- and Bithiophene-Dipicolinato Luminescent Lanthanide Complexes. 2021 , 64, 7724-7734 | | 4 |
| 121 | Passive Influx and Ion Trapping Are More Relevant to the Cellular Accumulation of Highly Permeable Low-Molecular-Weight Acidic Drugs than Is Organic Anion Transporter 2. 2021 , 49, 648-657 | | 0 |
| 120 | The Interplay between Dysregulated Ion Transport and Mitochondrial Architecture as a Dangerous Liaison in Cancer. <i>International Journal of Molecular Sciences</i> , 2021 , 22, | 6.3 | 6 |
| 119 | Golgi apparatus-synthesized sulfated glycosaminoglycans mediate polymerization and activation of the cGAMP sensor STING. 2021 , 54, 962-975.e8 | | 9 |
| 118 | Recapitulation of Cancer Nanotherapeutics. 2021 , 11, 3-15 | | |
| 117 | Conformational specificity of opioid receptors is determined by subcellular location irrespective of agonist. <i>ELife</i> , 2021 , 10, | 8.9 | 4 |
| 116 | Excitation spectral microscopy for highly multiplexed fluorescence imaging and quantitative biosensing. 2021 , 10, 97 | | 12 |
| 115 | Protonation State of a Histidine Residue in Human Oligopeptide Transporter 1 (hPEPT1) Regulates hPEPT1-Mediated Efflux Activity. 2021 , 44, 678-685 | | |
| 114 | A Tunable Palette of Molecular Rotors Allows Multicolor, Ratiometric Fluorescence Imaging and Direct Mapping of Mitochondrial Heterogeneity.. 2021 , 4, 4361-4372 | | 8 |
| 113 | The Golgi as a "Proton Sink" in Cancer. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 664295 | 5.7 | 1 |
| 112 | pH-Dependent Flavin Adenine Dinucleotide and Nicotinamide Adenine Dinucleotide Ultraviolet Resonance Raman (UVRR) Spectra at Intracellular Concentration. 2021 , 75, 994-1002 | | 1 |
| 111 | 1,2,4-Triaminobenzene as a Fluorescent Probe for Intracellular pH Imaging and Point-of-Care Ammonia Sensing.. 2021 , 4, 6065-6072 | | 1 |

| | | | |
|-----|---|-----|----|
| 110 | pH dependent electrical properties of the inner- and outer- leaflets of biomimetic cell membranes. 2021 , 594, 279-289 | | 1 |
| 109 | Up-conversion hybrid nanomaterials for light- and heat-driven applications. 2021 , 121, 100838 | | 5 |
| 108 | Development of reaction-free and mitochondrion-immobilized fluorescent probe for monitoring pH change. <i>Sensors and Actuators B: Chemical</i> , 2021 , 341, 129962 | 8.5 | 5 |
| 107 | □Naphthothiazolium-based ratiometric fluorescent probe with ideal pKa for pH imaging in mitochondria of living cells. 2021 , 232, 122475 | | 0 |
| 106 | Mitokyne: A Ratiometric Raman Probe for Mitochondrial pH. <i>Analytical Chemistry</i> , 2021 , 93, 12786-12792 | 7.8 | 2 |
| 105 | In situ observation of mitochondrial biogenesis as the early event of apoptosis. 2021 , 24, 103038 | | 1 |
| 104 | Stimulus-cleavable chemistry in the field of controlled drug delivery. 2021 , 50, 4872-4931 | | 22 |
| 103 | An ESIPT based versatile fluorescent probe for bioimaging live-cells and E. coli under strongly acidic conditions. | | 1 |
| 102 | Ion Channels, Transporters, and Sensors Interact with the Acidic Tumor Microenvironment to Modify Cancer Progression. 2021 , 1 | | 0 |
| 101 | Regulation of Intracellular pH in Mammalian Cells. 2003 , 1-15 | | 3 |
| 100 | Mitochondrial, acidic, and cytosolic pHs determination by ³¹ P NMR spectroscopy: design of new sensitive targeted pH probes. <i>Methods in Molecular Biology</i> , 2015 , 1265, 135-47 | 1.4 | 2 |
| 99 | A novel approach combining real-time imaging and the patch-clamp technique to calibrate FRET-based reporters for cAMP in their cellular microenvironment. <i>Methods in Molecular Biology</i> , 2015 , 1294, 25-40 | 1.4 | 13 |
| 98 | Single-cell imaging techniques for the real-time detection of IP ₃ in live cells. <i>Methods in Molecular Biology</i> , 2013 , 937, 175-92 | 1.4 | 1 |
| 97 | The design and application of genetically encodable biosensors based on fluorescent proteins. <i>Methods in Molecular Biology</i> , 2014 , 1071, 1-16 | 1.4 | 6 |
| 96 | Sarco-Endoplasmic Reticulum Calcium Release Model Based on Changes in the Luminal Calcium Content. 2020 , 1131, 337-370 | | 7 |
| 95 | Taurine and regulation of mitochondrial metabolism. 2015 , 803, 397-405 | | 12 |
| 94 | Imaging of Intracellular pH in Tumor Spheroids Using Genetically Encoded Sensor SypHer2. 2017 , 1035, 105-119 | | 5 |
| 93 | Visualizing and Modulating Mitophagy for Therapeutic Studies of Neurodegeneration. 2020 , 181, 1176-1187.e14 | | 14 |

| | | | |
|----|--|------|-----|
| 92 | Studying signal compartmentation in adult cardiomyocytes. 2020 , 48, 61-70 | | 8 |
| 91 | AMPfret: synthetic nanosensor for cellular energy states. 2020 , 48, 103-111 | | 1 |
| 90 | Physical and functional association of glycolipid N-acetyl-galactosaminyl and galactosyl transferases in the Golgi apparatus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 1625-30 | 11.5 | 70 |
| 89 | Cancer cells have distinct electrical properties that predict a susceptibility to lipophilic anions; a new cancer drug paradigm. | | 3 |
| 88 | Single cell analyses reveal phosphate availability as critical factor for nutrition of <i>Salmonella enterica</i> within mammalian host cells. | | 4 |
| 87 | Green Fluorescent Proteins and Their Applications to Cell Biology and Bioelectronics. 2003 , | | 1 |
| 86 | Next Generation Sensors for Measuring Ionic Flux in Live Cells. 2004 , | | 2 |
| 85 | Root pH Regulation. 2002 , 553-570 | | 10 |
| 84 | A spliced variant of AE1 gene encodes a truncated form of Band 3 in heart: the predominant anion exchanger in ventricular myocytes. 1999 , 112, 1519-1528 | | 34 |
| 83 | Intracellular pH homeostasis during cell-cycle progression and growth state transition in <i>Schizosaccharomyces pombe</i> . 2001 , 114, 2929-2941 | | 50 |
| 82 | Cell biology beyond the diffraction limit: near-field scanning optical microscopy. 2001 , 114, 4153-4160 | | 155 |
| 81 | Calmodulin-containing substructures of the centrosomal matrix released by microtubule perturbation. 2002 , 115, 2367-2379 | | 21 |
| 80 | Characterization of yeast V-ATPase mutants lacking Vph1p or Stv1p and the effect on endocytosis. 2002 , 205, 1209-1219 | | 70 |
| 79 | Matriptase autoactivation is tightly regulated by the cellular chemical environments. 2014 , 9, e93899 | | 17 |
| 78 | Plasma membrane Ca ²⁺ -ATPase isoforms composition regulates cellular pH homeostasis in differentiating PC12 cells in a manner dependent on cytosolic Ca ²⁺ elevations. 2014 , 9, e102352 | | 16 |
| 77 | Mitochondrial dysfunction activates lysosomal-dependent mitophagy selectively in cancer cells. 2018 , 9, 995-1011 | | 23 |
| 76 | pHluorin2: an enhanced, ratiometric, pH-sensitive green fluorescent protein. 2011 , 2, 132-137 | | 112 |
| 75 | Prolactin-induced Subcellular Targeting of GLUT1 Glucose Transporter in Living Mammary Epithelial Cells. 2015 , 6, | | 3 |

- 74 Recent Advances in Small Molecule-Based Intracellular pH Probes. *ChemBioChem*, **2021**, 3.8 2
- 73 Mitochondrial calcium exchange in physiology and disease. *Physiological Reviews*, **2021**, 47.9 15
- 72 Green Fluorescent Protein-based Probes.. *Seibutsu Butsuri*, **2000**, 40, 83-88 0
- 71 Dynamics of H⁺ Fluxes in the Plant Apoplast. **2002**, 1
- 70 Confocal pH Topography in Plant Cells. **2002**,
- 69 Application of Green Fluorescent Protein-Based Chloride Indicators for Drug Discovery by High-Throughput Screening. **2004**, 85-98
- 68 Intracellular AcidBase Homeostasis. **2005**, 25-46
- 67 Green Fluorescent Proteins as Intracellular pH Indicators. **2010**, 10-1-10-22
- 66 Walking Nanothermometer. *Seibutsu Butsuri*, **2013**, 53, 158-159 0
- 65 Intracellular Autofluorescent Species: Structure, Spectroscopy, and Photophysics. *Series in Cellular and Clinical Imaging*, **2014**, 41-64
- 64 Optical Imaging: How Far Can We Go. **2017**, 127-150
- 63 Glycan processing in the Golgi [Optimal information coding and constraints on cisternal number and enzyme specificity. 0
- 62 In-situ observation of mitochondrial biogenesis as the early event of apoptosis.
- 61 A multimodal fluorescent probe for portable colorimetric detection of pH and it's application in mitochondrial bioimaging. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2022**, 267, 120554 4.4 2
- 60 Major methods and technologies for assessing cell death. **2022**, 93-118
- 59 Exploring near-infrared absorbing nanocarriers to overcome cancer drug resistance.. **2020**, 3, 302-333 1
- 58 Influence of spatial structure on protein damage susceptibility [A bioinformatics approach.
- 57 DNA-Origami-Based Fluorescence Brightness Standards for Convenient and Fast Protein Counting in Live Cells. 0

| | | | |
|----|--|------|---|
| 56 | Impact of Hydrogen Sulfide on Mitochondrial and Bacterial Bioenergetics. <i>International Journal of Molecular Sciences</i> , 2021 , 22, | 6.3 | 1 |
| 55 | Enzyme Nomenclature and Classification: the State of the Art. <i>FEBS Journal</i> , 2021 , | 5.7 | 4 |
| 54 | F1F0 ATP Hydrolysis is a Determinant of Metabolic Rate, a Correlate of Lifespan, and a Weakness of Cancer. | | 0 |
| 53 | Membrane-Activated Fluorescent Probe for High-Fidelity Imaging of Mitochondrial Membrane Potential. <i>ACS Sensors</i> , 2021 , 6, 4009-4018 | 9.2 | 1 |
| 52 | Novel Dual-Organelle-Targeting Probe (RCP) for Simultaneous Measurement of Organellar Acidity and Alkalinity in Living Cells. <i>ACS Omega</i> , 2021 , 6, 31447-31456 | 3.9 | 1 |
| 51 | Coating polymers on nanoparticles for biomedical uses. 2021 , | | |
| 50 | pH-Dominated Selective Imaging of Lipid Droplets and Mitochondria via a Polarity-Reversible Ratiometric Fluorescent Probe.. <i>Analytical Chemistry</i> , 2022 , | 7.8 | 3 |
| 49 | Mitochondrial Membrane Remodeling.. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 786806 | 5.8 | 1 |
| 48 | Chimeric nanoparticles for targeting mitochondria in cancer cells. <i>Nanoscale Advances</i> , | 5.1 | 0 |
| 47 | ARF GTPases activate Salmonella effector SopF to ADP-ribosylate host V-ATPase and inhibit endomembrane damage-induced autophagy.. <i>Nature Structural and Molecular Biology</i> , 2022 , 29, 67-77 | 17.6 | 7 |
| 46 | Use of Fluorescence Recovery After Photobleaching (FRAP) to Measure In Vivo Dynamics of Cell Junction-Associated Polarity Proteins.. <i>Methods in Molecular Biology</i> , 2022 , 2438, 1-30 | 1.4 | 0 |
| 45 | SWI/SNF senses carbon starvation with a pH-sensitive low complexity sequence.. <i>ELife</i> , 2022 , 11, | 8.9 | 2 |
| 44 | Covalent organic framework-based fluorescent nanoprobe for intracellular pH sensing and imaging.. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022 , 272, 121002 | 4.4 | 1 |
| 43 | Low Pka Spiropyran for Tracking C-Kit DNA G-Quadruplexes and Revealing the Dissipation of β h with Senescence Using an In-Situ Switching Strategy. <i>SSRN Electronic Journal</i> , | 1 | |
| 42 | A Reversible Plasmonic Nanoprobe for Dynamic Imaging of Intracellular pH during Endocytosis. <i>Chemical Science</i> , | 9.4 | 0 |
| 41 | Interconversion between [2Fe-2S] and [4Fe-4S] cluster glutathione complexes.. <i>Chemical Communications</i> , 2022 , | 5.8 | 1 |
| 40 | Pressure and temperature dependence of fluorescence anisotropy of green fluorescent protein.. <i>RSC Advances</i> , 2022 , 12, 8647-8655 | 3.7 | 1 |
| 39 | Glycan processing in the Golgi: optimal information coding and constraints on cisternal number and enzyme specificity.. <i>ELife</i> , 2022 , 11, | 8.9 | 1 |

| | | | |
|----|---|------|---|
| 38 | Intracellular pH Control by Membrane Transport in Mammalian Cells. Insights Into the Selective Advantages of Functional Redundancy.. <i>Frontiers in Molecular Biosciences</i> , 2022 , 9, 825028 | 5.6 | 0 |
| 37 | AgInS ₂ /ZnS quantum dots for noninvasive cervical cancer screening with intracellular pH sensing using fluorescence lifetime imaging microscopy. <i>Nano Research</i> , 1 | 10 | 1 |
| 36 | Fluorescence lifetime-based pH mapping of tumors in vivo using new genetically encoded sensor SypHerRed.. <i>Biophysical Journal</i> , 2022 , | 2.9 | 0 |
| 35 | Prediction and comparative analysis of CTCF binding sites based on a first principle approach.. <i>Physical Biology</i> , 2022 , | 3 | 1 |
| 34 | A spiropyran with low pKa for tracking DNA G-quadruplexes and revealing the dissipation of pH with senescence using an in-situ switching strategy. <i>Sensors and Actuators B: Chemical</i> , 2022 , 359, 131618 | 8.5 | 2 |
| 33 | Imaging mitochondrial calcium dynamics in the central nervous system.. <i>Journal of Neuroscience Methods</i> , 2022 , 373, 109560 | 3 | 1 |
| 32 | V-ATPase V0a1 promotes Weibel-Palade body biogenesis through the regulation of membrane fission.. <i>ELife</i> , 2021 , 10, | 8.9 | 1 |
| 31 | Fluorescent Indicators For Biological Imaging of Monatomic Ions.. <i>Frontiers in Cell and Developmental Biology</i> , 2022 , 10, 885440 | 5.7 | 0 |
| 30 | Intracellular pH Regulation. 2001 , 357-372 | | |
| 29 | Pyrimidine-Based Fluorescent Probe for Monitoring Mitophagy via Detection of Mitochondrial pH Variation.. <i>ChemBioChem</i> , 2022 , | 3.8 | |
| 28 | Perspective on fluorescence cell imaging with ionophore-based ion-selective nano-optodes. <i>Biomicrofluidics</i> , 2022 , 16, 031301 | 3.2 | |
| 27 | The Functional Characterization of GCaMP3.0 Variants Specifically Targeted to Subcellular Domains. <i>International Journal of Molecular Sciences</i> , 2022 , 23, 6593 | 6.3 | 1 |
| 26 | Bioluminescence Color-Tuning Firefly Luciferases: Engineering and Prospects for Real-Time Intracellular pH Imaging and Heavy Metal Biosensing. <i>Biosensors</i> , 2022 , 12, 400 | 5.9 | 1 |
| 25 | Nano-based drug delivery systems: Conventional drug delivery routes, recent developments and future prospects. <i>Medicine in Drug Discovery</i> , 2022 , 15, 100134 | 7 | 3 |
| 24 | Thermal Probing Techniques for a Single Live Cell. <i>Sensors</i> , 2022 , 22, 5093 | 3.8 | |
| 23 | Recent Progress on the Activation of the cGAS-STING Pathway and its Regulation by Biomolecular Condensation. <i>Journal of Molecular Cell Biology</i> , | 6.3 | 0 |
| 22 | The role of proton in a eukaryotic zinc transporter. | | |
| 21 | Live Streaming of a Single Cell's Life over a Local pH-Monitoring Nanowire Waveguide. <i>Nano Letters</i> , | 11.5 | |

- 20 Trypanosoma brucei Mitochondrial DNA Polymerase POLIB Contains a Novel Thumb Insertion That Confers Dominant Exonuclease Activity.
- 19 Monitoring intracellular pH using a hemicyanine-based ratiometric fluorescent probe. **2022**, 121778
- 18 Determinants, Maintenance and Function of Organellar pH.
- 17 A tunable pH probe scaffold based on sulfonamide rhodamine and its application in mitochondrial pH research. **2022**, 371, 132606
- 16 Iron Insertion at the Assembly Site of the ISCU Scaffold Protein Is a Conserved Process Initiating FeS Cluster Biosynthesis. **2022**, 144, 17496-17515
- 15 GPHR -mediated acidification of the Golgi lumen is essential for cholesterol biosynthesis in the brain.
- 14 Engineered Materials for Probing and Perturbing Brain Chemistry. **2022**, 89-168
- 13 Targeting Apollo-NADP+ to Image NADPH Generation in Pancreatic Beta-Cell Organelles.
- 12 Computational Modeling and Imaging of the Intracellular Oxygen Gradient. **2022**, 23, 12597
- 11 Trypanosoma brucei Mitochondrial DNA Polymerase POLIB Contains a Novel Polymerase Domain Insertion That Confers Dominant Exonuclease Activity.
- 10 Modulation of mitochondria by viral proteins. **2023**, 313, 121271
- 9 Cryo-EM structure of a eukaryotic zinc transporter at a low pH suggests its Zn²⁺-releasing mechanism. **2023**, 215, 107926
- 8 Antiparasitic effect of copper alloy mesh on tomont stage of Cryptocaryon irritans in aquaculture.
- 7 Recent applications of fluorescent nanodiamonds containing nitrogen-vacancy centers in biosensing. **2022**, 2, 191-202
- 6 Temperature-responsive and biocompatible nanocarriers based on clay nanotubes for controlled anti-cancer drug release.
- 5 Single-molecule displacement mapping unveils sign-asymmetric protein charge effects on intraorganellar diffusion.
- 4 Single-Molecule Displacement Mapping Unveils Sign-Asymmetric Protein Charge Effects on Intraorganellar Diffusion. **2023**, 23, 1711-1716
- 3 Live-cell Fluorescence Microscopy of HSV-1 Cellular Egress by Exocytosis.

2 Mitochondrial proton leak in cardiac aging. ○

1 von Willebrand factor binds to angiotensin-2 within endothelial cells and after release from Weibel-Palade bodies. 2023, ○