# Shinsuke Ohnuki

List of Publications by Year
in descending order



| 44 | 914 | 471509 17 | 501196 28 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 45 | 45 | 45 | 1099 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Intelligent sortâ€timing prediction for imageâ€activated cell sorting. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2023, 103, 88-97. | 1.5 | 2 |
| 2 | Jerveratrum-Type Steroidal Alkaloids Inhibit Î²-1,6-Glucan Biosynthesis in Fungal Cell Walls. Microbiology Spectrum, 2022, 10, e0087321. | 3.0 | 9 |
| 3 | High-throughput platform for yeast morphological profiling predicts the targets of bioactive compounds. Npj Systems Biology and Applications, 2022, 8, 3. | 3.0 | 5 |
| 4 | Assignment of unimodal probability distribution models for quantitative morphological phenotyping. BMC Biology, 2022, 20, 81. | 3.8 | 3 |
| 5 | Are droplets really suitable for single-cell analysis? A case study on yeast in droplets. Lab on A Chip, 2021, 21, 3793-3803. | 6.0 | 9 |
| 6 | Genome Editing to Generate Sake Yeast Strains with Eight Mutations That Confer Excellent Brewing Characteristics. Cells, 2021, 10, 1299. | 4.1 | 17 |
| 7 | Poacic acid, a Î²â€1,3â€glucanâ€“binding antifungal agent, inhibits cellâ€wall remodeling and activates transcriptional responses regulated by the cellâ€wall integrity and highâ€osmolarity glycerol pathways in yeast. FASEB Journal, 2021, 35, e21778. | 0.5 | 9 |
| 8 | Defining Functions of Mannoproteins in Saccharomyces cerevisiae by High-Dimensional Morphological Phenotyping. Journal of Fungi (Basel, Switzerland), 2021, 7, 769. | 3.5 | 6 |
| 9 | AI-based forecasting of ethanol fermentation using yeast morphological data. Bioscience, Biotechnology and Biochemistry, 2021, 86, 125-134. | 1.3 | 10 |
| 10 | Intelligent image-activated cell sorting 2.0. Lab on A Chip, 2020, 20, 2263-2273. | 6.0 | 93 |
| 11 | Sequentially addressable dielectrophoretic array for high-throughput sorting of large-volume biological compartments. Science Advances, 2020, 6, eaba6712. | 10.3 | 56 |
| 12 | Genetic profiling of protein burden and nuclear export overload. ELife, 2020, 9, . | 6.0 | 8 |
| 13 | Implications of maintenance of motherâ€“bud neck size in diverse vital processes of Saccharomyces cerevisiae. Current Genetics, 2019, 65, 253-267. | 1.7 | 7 |
| 14 | Single-Cell Phenomics in Budding Yeast: Technologies and Applications. , 2019, , 355-379. | | 1 |
| 15 | Genome editing to generate nonfoam-forming sake yeast strains. Bioscience, Biotechnology and Biochemistry, 2019, 83, 1583-1593. | 1.3 | 16 |
| 16 | Simulated microgravity triggers characteristic morphology and stress response in <scp>Saccharomyces cerevisiae</scp>. Yeast, 2019, 36, 85-97. | 1.7 | 4 |
| 17 | Carotenoid dynamics and lipid droplet containing astaxanthin in response to light in the green alga Haematococcus pluvialis. Scientific Reports, 2018, 8, 5617. | 3.3 | 57 |
| 18 | Global study of holistic morphological effectors in the budding yeast Saccharomyces cerevisiae. BMC Genomics, 2018, 19, 149. | 2.8 | 20 |

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|---|---|---|---|
| 19 | High-dimensional single-cell phenotyping reveals extensive haploinsufficiency. PLoS Biology, 2018, 16, e2005130. | 5.6 | 32 |
| 20 | The budding yeast RSC complex maintains ploidy by promoting spindle pole body insertion. Journal of Cell Biology, 2018, 217, 2445-2462. | 5.2 | 9 |
| 21 | Systematic analysis of Ca<sup>2+</sup>homeostasis inSaccharomyces cerevisiaebased on chemical-genetic interaction profiles. Molecular Biology of the Cell, 2017, 28, 3415-3427. | 2.1 | 10 |
| 22 | Morphometric analysis of autophagy-related structures inSaccharomyces cerevisiae. Autophagy, 2017, 13, 2104-2110. | 9.1 | 4 |
| 23 | Promoter engineering of the Saccharomyces cerevisiae RIM15 gene for improvement of alcoholic fermentation rates under stress conditions. Journal of Bioscience and Bioengineering, 2017, 123, 183-189. | 2.2 | 17 |
| 24 | Phenotypic Diagnosis of Lineage and Differentiation During Sake Yeast Breeding. G3: Genes, Genomes, Genetics, 2017, 7, 2807-2820. | 1.8 | 25 |
| 25 | Large-Scale Survey of Intraspecific Fitness and Cell Morphology Variation in a Protoploid Yeast Species. G3: Genes, Genomes, Genetics, 2016, 6, 1063-1071. | 1.8 | 6 |
| 26 | Profiling of the effects of antifungal agents on yeast cells based on morphometric analysis. FEMS Yeast Research, 2015, 15, fov040. | 2.3 | 25 |
| 27 | Quantification of Cell, Actin, and Nuclear DNA Morphology with High-Throughput Microscopy and CalMorph. Cold Spring Harbor Protocols, 2015, 2015, pdb.prot078667. | 0.3 | 7 |
| 28 | Single-cell phenomics in budding yeast. Molecular Biology of the Cell, 2015, 26, 3920-3925. | 2.1 | 27 |
| 29 | Image-Based Prediction of Drug Target in Yeast. Methods in Molecular Biology, 2015, 1263, 319-327. | 0.9 | 2 |
| 30 | Unveiling nonessential gene deletions that confer significant morphological phenotypes beyond natural yeast strains. BMC Genomics, 2014, 15, 932. | 2.8 | 21 |
| 31 | Dynamic changes in brewing yeast cells in culture revealed by statistical analyses of yeast morphological data. Journal of Bioscience and Bioengineering, 2014, 117, 278-284. | 2.2 | 11 |
| 32 | Hyperspectral imaging techniques for the characterization of <scp>H</scp>aematococcus pluvialis (<scp>C</scp>hlorophyceae). Journal of Phycology, 2014, 50, 939-947. | 2.3 | 14 |
| 33 | Distinct roles of cell wall biogenesis in yeast morphogenesis as revealed by multivariate analysis of high-dimensional morphometric data. Molecular Biology of the Cell, 2014, 25, 222-233. | 2.1 | 37 |
| 34 | Single-cell phenomics reveals intra-species variation of phenotypic noise in yeast. BMC Systems Biology, 2013, 7, 54. | 3.0 | 62 |
| 35 | Profilin is required for Ca2+ homeostasis and Ca2+-modulated bud formation in yeast. Molecular Genetics and Genomics, 2013, 288, 317-328. | 2.1 | 3 |
| 36 | Image-Based Monitoring System for Green Algal Haematococcus pluvialis (Chlorophyceae) Cells during Culture. Plant and Cell Physiology, 2013, 54, 1917-1929. | 3.1 | 11 |

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|---|---|---|---|
| 37 | Vanillin Inhibits Translation and Induces Messenger Ribonucleoprotein (mRNP) Granule Formation in Saccharomyces cerevisiae: Application and Validation of High-Content, Image-Based Profiling. PLoS ONE, 2013, 8, e61748. | 2.5 | 71 |
| 38 | Analysis of the biological activity of a novel 24-membered macrolide JBIR-19 in Saccharomyces cerevisiae by the morphological imaging program CalMorph. FEMS Yeast Research, 2012, 12, 293-304. | 2.3 | 23 |
| 39 | Effects of alloying elements on radiation hardening based on loop formation of electron-irradiated light water reactor pressure vessel model steels. Journal of Nuclear Materials, 2011, 417, 936-939. | 2.7 | 4 |
| 40 | High-Content, Image-Based Screening for Drug Targets in Yeast. PLoS ONE, 2010, 5, e10177. | 2.5 | 48 |
| 41 | Role of bottom-fermenting brewer's yeast KEX2 in high temperature resistance and poor proliferation at low temperatures. Journal of General and Applied Microbiology, 2010, 56, 297-312. | 0.7 | 20 |
| 42 | Multiple Functional Domains of the Yeast l,3-Î²-Glucan Synthase Subunit Fks1p Revealed by Quantitative Phenotypic Analysis of Temperature-Sensitive Mutants. Genetics, 2010, 184, 1013-1024. | 2.9 | 56 |
| 43 | A microfluidic device to acquire high-magnification microphotographs of yeast cells. Cell Division, 2009, 4, 5. | 2.4 | 12 |
| 44 | Diversity of Ca2+-Induced Morphology Revealed by Morphological Phenotyping of Ca2+-Sensitive Mutants of Saccharomyces cerevisiae. Eukaryotic Cell, 2007, 6, 817-830. | 3.4 | 24 |