

# Nicolas Dupont

## List of Publications by Citations

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|-------------------|-------------------------|-----------------|-----------------|
| 47<br>papers      | 7,773<br>citations      | 23<br>h-index   | 50<br>g-index   |
| 50<br>ext. papers | 9,516<br>ext. citations | 10.3<br>avg, IF | 5.07<br>L-index |

| #  | Paper   | IF   | Citations |
|----|---|------|-----------|
| 47 | Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , <b>2016</b> , 12, 1-222  | 10.2 | 3838      |
| 46 | Autophagy-based unconventional secretory pathway for extracellular delivery of IL-1 $\beta$ <i>EMBO Journal</i> , <b>2011</b> , 30, 4701-11   | 13   | 614       |
| 45 | TBK-1 promotes autophagy-mediated antimicrobial defense by controlling autophagosome maturation. <i>Immunity</i> , <b>2012</b> , 37, 223-34   | 32.3 | 446       |
| 44 | Guidelines for the use and interpretation of assays for monitoring autophagy (4th edition). <i>Autophagy</i> , <b>2021</b> , 17, 1-382  | 10.2 | 440       |
| 43 | Autophagy protects against active tuberculosis by suppressing bacterial burden and inflammation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, E3168-76             | 11.5 | 322       |
| 42 | Shigella phagocytic vacuolar membrane remnants participate in the cellular response to pathogen invasion and are regulated by autophagy. <i>Cell Host and Microbe</i> , <b>2009</b> , 6, 137-49                                   | 23.4 | 259       |
| 41 | Galectin-3, a marker for vacuole lysis by invasive pathogens. <i>Cellular Microbiology</i> , <b>2010</b> , 12, 530-44   | 3.9  | 233       |
| 40 | Dedicated SNAREs and specialized TRIM cargo receptors mediate secretory autophagy. <i>EMBO Journal</i> , <b>2017</b> , 36, 42-60  | 13   | 174       |
| 39 | Neutral lipid stores and lipase PNPLA5 contribute to autophagosome biogenesis. <i>Current Biology</i> , <b>2014</b> , 24, 609-20  | 6.3  | 168       |
| 38 | Autophagy intersections with conventional and unconventional secretion in tissue development, remodeling and inflammation. <i>Trends in Cell Biology</i> , <b>2012</b> , 22, 397-406  | 18.3 | 164       |
| 37 | Unsaturated fatty acids induce non-canonical autophagy. <i>EMBO Journal</i> , <b>2015</b> , 34, 1025-41   | 13   | 126       |
| 36 | ER-plasma membrane contact sites contribute to autophagosome biogenesis by regulation of local PI3P synthesis. <i>EMBO Journal</i> , <b>2017</b> , 36, 2018-2033  | 13   | 118       |
| 35 | Autophagy: A Druggable Process. <i>Annual Review of Pharmacology and Toxicology</i> , <b>2017</b> , 57, 375-398   | 17.9 | 108       |
| 34 | Autophagy is required for endothelial cell alignment and atheroprotection under physiological blood flow. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E8675-E8684 | 11.5 | 98        |
| 33 | Primary-cilium-dependent autophagy controls epithelial cell volume in response to fluid flow. <i>Nature Cell Biology</i> , <b>2016</b> , 18, 657-67   | 23.4 | 87        |
| 32 | Secretory versus degradative autophagy: unconventional secretion of inflammatory mediators. <i>Journal of Innate Immunity</i> , <b>2013</b> , 5, 471-9  | 6.9  | 85        |
| 31 | Aspirin Recapitulates Features of Caloric Restriction. <i>Cell Reports</i> , <b>2018</b> , 22, 2395-2407  | 10.6 | 80        |

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| 30 | Autophagy and regulation of cilia function and assembly. <i>Cell Death and Differentiation</i> , <b>2015</b> , 22, 389-97  | 12.7 | 48 |
| 29 | Cellular and molecular mechanism for secretory autophagy. <i>Autophagy</i> , <b>2017</b> , 13, 1084-1085   | 10.2 | 45 |
| 28 | The Pro-apoptotic STK38 Kinase Is a New Beclin1 Partner Positively Regulating Autophagy. <i>Current Biology</i> , <b>2015</b> , 25, 2479-92  | 6.3  | 38 |
| 27 | Fine-tuning autophagy: from transcriptional to posttranslational regulation. <i>American Journal of Physiology - Cell Physiology</i> , <b>2016</b> , 311, C351-62                          | 5.4  | 26 |
| 26 | Molecular Mechanisms of Noncanonical Autophagy. <i>International Review of Cell and Molecular Biology</i> , <b>2017</b> , 328, 1-23  | 6    | 25 |
| 25 | PI3KC2B-dependent and VPS34-independent generation of PI3P controls primary cilium-mediated autophagy in response to shear stress. <i>Nature Communications</i> , <b>2020</b> , 11, 294    | 17.4 | 25 |
| 24 | How ubiquitination and autophagy participate in the regulation of the cell response to bacterial infection. <i>Biology of the Cell</i> , <b>2010</b> , 102, 621-34                         | 3.5  | 22 |
| 23 | Autophagy and autophagic flux in tumor cells. <i>Methods in Enzymology</i> , <b>2014</b> , 543, 73-88  | 1.7  | 21 |
| 22 | The mBage 1 role of autophagy, lipid droplets and liver disease. <i>Autophagy</i> , <b>2021</b> , 1-24   | 10.2 | 20 |
| 21 | Endothelial autophagic flux hampers atherosclerotic lesion development. <i>Autophagy</i> , <b>2018</b> , 14, 173-175   | 10.2 | 17 |
| 20 | The primary cilium and lipophagy translate mechanical forces to direct metabolic adaptation of kidney epithelial cells. <i>Nature Cell Biology</i> , <b>2020</b> , 22, 1091-1102           | 23.4 | 16 |
| 19 | Non-canonical Autophagy: Facts and Prospects. <i>Current Pathobiology Reports</i> , <b>2013</b> , 1, 263-271   | 2    | 14 |
| 18 | Interplay between primary cilia, ubiquitin-proteasome system and autophagy. <i>Biochimie</i> , <b>2019</b> , 166, 286-292  | 4.2  | 13 |
| 17 | Long-Lived Protein Degradation During Autophagy. <i>Methods in Enzymology</i> , <b>2017</b> , 588, 31-40   | 1.7  | 12 |
| 16 | Primary cilium and autophagy: The avengers of cell-size regulation. <i>Autophagy</i> , <b>2016</b> , 12, 2258-2259   | 10.2 | 11 |
| 15 | Autophagy transduces physical constraints into biological responses. <i>International Journal of Biochemistry and Cell Biology</i> , <b>2016</b> , 79, 419-426                             | 5.6  | 10 |
| 14 | The primary cilium protein folliculin is part of the autophagy signaling pathway to regulate epithelial cell size in response to fluid flow. <i>Cell Stress</i> , <b>2019</b> , 3, 100-109 | 5.5  | 10 |
| 13 | To be or not to be cell autonomous? Autophagy says both. <i>Essays in Biochemistry</i> , <b>2017</b> , 61, 649-661   | 7.6  | 6  |

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|----|---|------|---|
| 12 | The autophagy protein ATG16L1 cooperates with IFT20 and INPP5E to regulate the turnover of phosphoinositides at the primary cilium. <i>Cell Reports</i> , <b>2021</b> , 35, 109045  | 10.6 | 6 |
| 11 | Fluid flow-induced shear stress controls the metabolism of proximal tubule kidney epithelial cells through primary cilium-dependent lipophagy and mitochondria biogenesis. <i>Autophagy</i> , <b>2020</b> , 16, 2287-2288 | 10.2 | 5 |
| 10 | Primary cilium-dependent autophagy drafts PIK3C2A to generate PtdIns3P in response to shear stress. <i>Autophagy</i> , <b>2020</b> , 16, 1143-1144  | 10.2 | 4 |
| 9  | Autophagy plays a WASHing game. <i>EMBO Journal</i> , <b>2013</b> , 32, 2659-60   | 13   | 4 |
| 8  | How autophagy regulates the host cell signaling associated with the postpartum bacteria cocoon experienced as a danger signal. <i>Autophagy</i> , <b>2009</b> , 5, 1222-3   | 10.2 | 4 |
| 7  | Autophagy regulation: RNF2 targets AMBRA1. <i>Cell Research</i> , <b>2014</b> , 24, 1029-30   | 24.7 | 3 |
| 6  | ATG4D is the main ATG8 delipidating enzyme in mammalian cells and protects against cerebellar neurodegeneration. <i>Cell Death and Differentiation</i> , <b>2021</b> , 28, 2651-2672                                      | 12.7 | 2 |
| 5  | When the autophagy protein ATG16L1 met the ciliary protein IFT20. <i>Autophagy</i> , <b>2021</b> , 17, 1791-1793  | 10.2 | 2 |
| 4  | Links between autophagy and tissue mechanics. <i>Journal of Cell Science</i> , <b>2021</b> , 134,   | 5.3  | 2 |
| 3  | Monitoring of Autophagy and Cell Volume Regulation in Kidney Epithelial Cells in Response to Fluid Shear Stress. <i>Methods in Molecular Biology</i> , <b>2019</b> , 1880, 331-340  | 1.4  | 1 |
| 2  | Monitoring lipophagy in kidney epithelial cells in response to shear stress. <i>Methods in Cell Biology</i> , <b>2021</b> , 164, 11-25  | 1.8  | 1 |
| 1  | Overview of noncanonical autophagy <b>2021</b> , 41-67  |      |   |