

# Mario de Bono

## List of Publications by Year in descending order

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Version: 2024-02-01

35  
papers

3,571  
citations

279798

23  
h-index

345221

36  
g-index

46  
all docs

46  
docs citations

46  
times ranked

2787  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Natural Variation in a Neuropeptide Y Receptor Homolog Modifies Social Behavior and Food Response in <i>C. elegans</i> . <i>Cell</i> , 1998, 94, 679-689.   | 28.9 | 737       |
| 2  | NEURONAL SUBSTRATES OF COMPLEX BEHAVIORS INC. <i>ELEGANS</i> . <i>Annual Review of Neuroscience</i> , 2005, 28, 451-501.  | 10.7 | 351       |
| 3  | Inhibition of <i>Caenorhabditis elegans</i> social feeding by FMRFamide-related peptide activation of NPR-1. <i>Nature Neuroscience</i> , 2003, 6, 1178-1185.   | 14.8 | 231       |
| 4  | Social feeding in <i>Caenorhabditis elegans</i> is induced by neurons that detect aversive stimuli. <i>Nature</i> , 2002, 419, 899-903.   | 27.8 | 229       |
| 5  | Experience-Dependent Modulation of <i>C. elegans</i> Behavior by Ambient Oxygen. <i>Current Biology</i> , 2005, 15, 905-917.  | 3.9  | 195       |
| 6  | Antagonistic pathways in neurons exposed to body fluid regulate social feeding in <i>Caenorhabditis elegans</i> . <i>Nature</i> , 2002, 419, 925-929.   | 27.8 | 174       |
| 7  | A carbon dioxide avoidance behavior is integrated with responses to ambient oxygen and food in <i>Caenorhabditis elegans</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 8044-8049.                                   | 7.1  | 170       |
| 8  | Soluble Guanylate Cyclases Act in Neurons Exposed to the Body Fluid to Promote <i>C. elegans</i> Aggregation Behavior. <i>Current Biology</i> , 2004, 14, 1105-1111.  | 3.9  | 136       |
| 9  | Efficient genome editing in <i>Caenorhabditis elegans</i> by CRISPR-targeted homologous recombination. <i>Nucleic Acids Research</i> , 2013, 41, e193-e193.   | 14.5 | 134       |
| 10 | Behavioral Motifs and Neural Pathways Coordinating O <sub>2</sub> Responses and Aggregation in <i>C. elegans</i> . <i>Current Biology</i> , 2006, 16, 649-659.  | 3.9  | 126       |
| 11 | Natural variation in a neural globin tunes oxygen sensing in wild <i>Caenorhabditis elegans</i> . <i>Nature</i> , 2009, 458, 1030-1033.   | 27.8 | 125       |
| 12 | Temperature, Oxygen, and Salt-Sensing Neurons in <i>C. elegans</i> Are Carbon Dioxide Sensors that Control Avoidance Behavior. <i>Neuron</i> , 2011, 69, 1099-1113.   | 8.1  | 121       |
| 13 | Tonic signaling from O <sub>2</sub> sensors sets neural circuit activity and behavioral state. <i>Nature Neuroscience</i> , 2012, 15, 581-591.  | 14.8 | 117       |
| 14 | IL-17 is a neuromodulator of <i>Caenorhabditis elegans</i> sensory responses. <i>Nature</i> , 2017, 542, 43-48.   | 27.8 | 98        |
| 15 | Neuronal Control of Metabolism through Nutrient-Dependent Modulation of Tracheal Branching. <i>Cell</i> , 2014, 156, 69-83.   | 28.9 | 79        |
| 16 | Whole Genome Sequencing Highlights Genetic Changes Associated with Laboratory Domestication of <i>C. elegans</i> . <i>PLoS ONE</i> , 2010, 5, e13922.   | 2.5  | 68        |
| 17 | Decoding a neural circuit controlling global animal state in <i>C. elegans</i> . <i>ELife</i> , 2015, 4, .  | 6.0  | 63        |
| 18 | Environmental CO <sub>2</sub> inhibits <i>Caenorhabditis elegans</i> egg-laying by modulating olfactory neurons and evokes widespread changes in neural activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E3525-34. | 7.1  | 49        |

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|----|---|------|-----------|
| 19 | An ER Complex of ODR-4 and ODR-8/Ufm1 Specific Protease 2 Promotes GPCR Maturation by a Ufm1-Independent Mechanism. <i>PLoS Genetics</i> , 2014, 10, e1004082.  | 3.5  | 42        |
| 20 | Memory of recent oxygen experience switches pheromone valence in <i>Caenorhabditis elegans</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 4195-4200.                 | 7.1  | 42        |
| 21 | In vivo genetic dissection of O <sub>2</sub> -evoked cGMP dynamics in a <i>Caenorhabditis elegans</i> gas sensor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E3301-10. | 7.1  | 37        |
| 22 | Interactome analysis of <i>Caenorhabditis elegans</i> synapses by TurboID-based proximity labeling. <i>Journal of Biological Chemistry</i> , 2021, 297, 101094.   | 3.4  | 32        |
| 23 | Cross-Modulation of Homeostatic Responses to Temperature, Oxygen and Carbon Dioxide in <i>C. elegans</i> . <i>PLoS Genetics</i> , 2013, 9, e1004011.  | 3.5  | 31        |
| 24 | Molecular approaches to aggregation behavior and social attachment. <i>Journal of Neurobiology</i> , 2003, 54, 78-92.   | 3.6  | 27        |
| 25 | Macoilin, a Conserved Nervous System-Specific ER Membrane Protein That Regulates Neuronal Excitability. <i>PLoS Genetics</i> , 2011, 7, e1001341.   | 3.5  | 26        |
| 26 | GLOBIN-5-Dependent O <sub>2</sub> Responses Are Regulated by PDL-1/PrBP That Targets Prenylated Soluble Guanylate Cyclases to Dendritic Endings. <i>Journal of Neuroscience</i> , 2014, 34, 16726-16738.                        | 3.6  | 23        |
| 27 | Genetic dissection of neuropeptide cell biology at high and low activity in a defined sensory neuron. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E6890-E6899.          | 7.1  | 23        |
| 28 | MALT-1 mediates IL-17 neural signaling to regulate <i>C. elegans</i> behavior, immunity and longevity. <i>Nature Communications</i> , 2020, 11, 2099.   | 12.8 | 21        |
| 29 | Natural Variation in a Dendritic Scaffold Protein Remodels Experience-Dependent Plasticity by Altering Neuropeptide Expression. <i>Neuron</i> , 2020, 105, 106-121.e10.   | 8.1  | 15        |
| 30 | Neuronal HSF-1 coordinates the propagation of fat desaturation across tissues to enable adaptation to high temperatures in <i>C. elegans</i> . <i>PLoS Biology</i> , 2021, 19, e3001431.  | 5.6  | 15        |
| 31 | Modulation of sensory information processing by a neuroglobin in <i>Caenorhabditis elegans</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E4658-E4665.               | 7.1  | 12        |
| 32 | Long-term activity drives dendritic branch elaboration of a <i>C. elegans</i> sensory neuron. <i>Developmental Biology</i> , 2020, 461, 66-74.  | 2.0  | 6         |
| 33 | ROS and cGMP signaling modulate persistent escape from hypoxia in <i>Caenorhabditis elegans</i> . <i>PLoS Biology</i> , 2022, 20, e3001684.   | 5.6  | 5         |
| 34 | Neuronal calmodulin levels are controlled by CAMTA transcription factors. <i>ELife</i> , 2021, 10, .  | 6.0  | 3         |
| 35 | Purification of FLAG-tagged Secreted Proteins from Mammalian Cells. <i>Bio-protocol</i> , 2017, 7, .  | 0.4  | 2         |