

# Fiona E N Lebeau

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

50  
papers

4,674  
citations

32  
h-index

51  
g-index

51  
ext. papers

5,468  
ext. citations

6.2  
avg. IF

4.85  
L-index

| #  | Paper  | IF  | Citations |
|----|--|-----|-----------|
| 50 | Hippocampal network hyperexcitability in young transgenic mice expressing human mutant alpha-synuclein. <i>Neurobiology of Disease</i> , <b>2021</b> , 149, 105226   | 7.5 | 1         |
| 49 | A Closed-Loop Optogenetic Platform. <i>Frontiers in Neuroscience</i> , <b>2021</b> , 15, 718311  | 5.1 | 1         |
| 48 | Electrical stimulation of the ventral tegmental area evokes sleep-like state transitions under urethane anaesthesia in the rat medial prefrontal cortex via dopamine D-like receptors. <i>European Journal of Neuroscience</i> , <b>2020</b> , 52, 2915-2930 | 3.5 | 6         |
| 47 | Early Disruption of Cortical Sleep-Related Oscillations in a Mouse Model of Dementia With Lewy Bodies (DLB) Expressing Human Mutant (A30P) Alpha-Synuclein. <i>Frontiers in Neuroscience</i> , <b>2020</b> , 14, 579867                                      | 5.1 | 3         |
| 46 | Anti-inflammatory treatment rescues memory deficits during aging in nfkb1 mice. <i>Aging Cell</i> , <b>2020</b> , 19, e13188   | 9.9 | 17        |
| 45 | The Role of EEG in the Diagnosis, Prognosis and Clinical Correlations of Dementia with Lewy Bodies-A Systematic Review. <i>Diagnostics</i> , <b>2020</b> , 10,   | 3.8 | 10        |
| 44 | What electrophysiology tells us about Alzheimer's disease: a window into the synchronization and connectivity of brain neurons. <i>Neurobiology of Aging</i> , <b>2020</b> , 85, 58-73   | 5.6 | 59        |
| 43 | Quantitative electroencephalography as a marker of cognitive fluctuations in dementia with Lewy bodies and an aid to differential diagnosis. <i>Clinical Neurophysiology</i> , <b>2018</b> , 129, 1209-1220  | 4.3 | 28        |
| 42 | Impaired Fast Network Oscillations and Mitochondrial Dysfunction in a Mouse Model of Alpha-synucleinopathy (A30P). <i>Neuroscience</i> , <b>2018</b> , 377, 161-173  | 3.9 | 9         |
| 41 | Dorsal vs. ventral differences in fast Up-state-associated oscillations in the medial prefrontal cortex of the urethane-anesthetized rat. <i>Journal of Neurophysiology</i> , <b>2017</b> , 117, 1126-1142   | 3.2 | 5         |
| 40 | Cholinergic Pathology in Dementia with Lewy Bodies <b>2017</b> , 23-39   |     | 2         |
| 39 | Heterogeneity in Neuronal Intrinsic Properties: A Possible Mechanism for Hub-Like Properties of the Rat Anterior Cingulate Cortex during Network Activity. <i>ENeuro</i> , <b>2017</b> , 4,  | 3.9 | 12        |
| 38 | Subregional differences in the generation of fast network oscillations in the rat medial prefrontal cortex (mPFC) in vitro. <i>Journal of Physiology</i> , <b>2015</b> , 593, 3597-615   | 3.9 | 8         |
| 37 | Bidirectional modulation of hippocampal gamma (20-80 Hz) frequency activity in vitro via alpha(1) and beta(1)-adrenergic receptors (AR). <i>Neuroscience</i> , <b>2013</b> , 253, 142-54   | 3.9 | 36        |
| 36 | Cortical network oscillations in Alzheimer's disease: insights from rodent models. <i>Drug Discovery Today: Therapeutic Strategies</i> , <b>2013</b> , 10, e79-e83   |     |           |
| 35 | Minimal size of cell assemblies coordinated by gamma oscillations. <i>PLoS Computational Biology</i> , <b>2012</b> , 8, e1002362   | 5   | 33        |
| 34 | Partial loss of parvalbumin-containing hippocampal interneurons in dementia with Lewy bodies. <i>Neuropathology</i> , <b>2011</b> , 31, 1-10   | 2   | 18        |

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|----|---|------|-----|
| 33 | Multiple origins of the cortical $\gamma$ rhythm. <i>Developmental Neurobiology</i> , <b>2011</b> , 71, 92-106  | 3.2  | 177 |
| 32 | Cholinergic neuromodulation controls directed temporal communication in neocortex in vitro. <i>Frontiers in Neural Circuits</i> , <b>2010</b> , 4, 8  | 3.5  | 59  |
| 31 | NMDA receptor-dependent switching between different gamma rhythm-generating microcircuits in entorhinal cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 18572-7 | 11.5 | 92  |
| 30 | Beta-adrenergic receptors are differentially expressed in distinct interneuron subtypes in the rat hippocampus. <i>Journal of Comparative Neurology</i> , <b>2008</b> , 509, 551-65   | 3.4  | 40  |
| 29 | Beta rhythms (15-20 Hz) generated by nonreciprocal communication in hippocampus. <i>Journal of Neurophysiology</i> , <b>2007</b> , 97, 2812-23  | 3.2  | 30  |
| 28 | Impairment of hippocampal gamma-frequency oscillations in vitro in mice overexpressing human amyloid precursor protein (APP). <i>European Journal of Neuroscience</i> , <b>2007</b> , 26, 1280-8                                    | 3.5  | 59  |
| 27 | Recruitment of parvalbumin-positive interneurons determines hippocampal function and associated behavior. <i>Neuron</i> , <b>2007</b> , 53, 591-604   | 13.9 | 369 |
| 26 | A beta2-frequency (20-30 Hz) oscillation in nonsynaptic networks of somatosensory cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 15646-50                      | 11.5 | 231 |
| 25 | Region-specific reduction in entorhinal gamma oscillations and parvalbumin-immunoreactive neurons in animal models of psychiatric illness. <i>Journal of Neuroscience</i> , <b>2006</b> , 26, 2767-76                               | 6.6  | 143 |
| 24 | Microcircuits in action--from CPGs to neocortex. <i>Trends in Neurosciences</i> , <b>2005</b> , 28, 525-33  | 13.3 | 157 |
| 23 | Synaptic pathways in neural microcircuits. <i>Trends in Neurosciences</i> , <b>2005</b> , 28, 541-51  | 13.3 | 94  |
| 22 | Tuning the network: modulation of neuronal microcircuits in the spinal cord and hippocampus. <i>Trends in Neurosciences</i> , <b>2005</b> , 28, 552-61  | 13.3 | 40  |
| 21 | Structure/function correlates of neuronal and network activity: An overview. <i>Journal of Physiology</i> , <b>2005</b> , 562, 1-2  | 3.9  |     |
| 20 | Persistent gamma oscillations in superficial layers of rat auditory neocortex: experiment and model. <i>Journal of Physiology</i> , <b>2005</b> , 562, 3-8  | 3.9  | 48  |
| 19 | Oscillatory activity within rat substantia gelatinosa in vitro: a role for chemical and electrical neurotransmission. <i>Journal of Physiology</i> , <b>2005</b> , 562, 183-98  | 3.9  | 24  |
| 18 | Transient depression of excitatory synapses on interneurons contributes to epileptiform bursts during gamma oscillations in the mouse hippocampal slice. <i>Journal of Neurophysiology</i> , <b>2005</b> , 94, 1225-33 <sup>2</sup> | 3.2  | 45  |
| 17 | Single-column thalamocortical network model exhibiting gamma oscillations, sleep spindles, and epileptogenic bursts. <i>Journal of Neurophysiology</i> , <b>2005</b> , 93, 2194-232   | 3.2  | 330 |
| 16 | A role for fast rhythmic bursting neurons in cortical gamma oscillations in vitro. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 7152-7                               | 11.5 | 141 |

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|----|---|------|-----|
| 15 | Cellular mechanisms of neuronal population oscillations in the hippocampus in vitro. <i>Annual Review of Neuroscience</i> , <b>2004</b> , 27, 247-78  | 17   | 264 |
| 14 | Contrasting roles of axonal (pyramidal cell) and dendritic (interneuron) electrical coupling in the generation of neuronal network oscillations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 1370-4 | 11.5 | 115 |
| 13 | Sharp wave-like activity in the hippocampus in vitro in mice lacking the gap junction protein connexin 36. <i>Journal of Neurophysiology</i> , <b>2003</b> , 89, 2046-54  | 3.2  | 82  |
| 12 | A Possible Role for Gap Junctions in Generation of Very Fast EEG Oscillations Preceding the Onset of, and Perhaps Initiating, Seizures. <i>Epilepsia</i> , <b>2003</b> , 42, 153-170  | 6.4  | 11  |
| 11 | The role of electrical signaling via gap junctions in the generation of fast network oscillations. <i>Brain Research Bulletin</i> , <b>2003</b> , 62, 3-13  | 3.9  | 69  |
| 10 | GABA-enhanced collective behavior in neuronal axons underlies persistent gamma-frequency oscillations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 11047-52   | 11.5 | 176 |
| 9  | Fast network oscillations in the rat dentate gyrus in vitro. <i>Journal of Neurophysiology</i> , <b>2002</b> , 87, 1165-8   | 3.2  | 43  |
| 8  | Fast network oscillations induced by potassium transients in the rat hippocampus in vitro. <i>Journal of Physiology</i> , <b>2002</b> , 542, 167-79   | 3.9  | 63  |
| 7  | A model of atropine-resistant theta oscillations in rat hippocampal area CA1. <i>Journal of Physiology</i> , <b>2002</b> , 543, 779-93  | 3.9  | 147 |
| 6  | A possible role for gap junctions in generation of very fast EEG oscillations preceding the onset of, and perhaps initiating, seizures. <i>Epilepsia</i> , <b>2001</b> , 42, 153-70   | 6.4  | 257 |
| 5  | Impaired electrical signaling disrupts gamma frequency oscillations in connexin 36-deficient mice. <i>Neuron</i> , <b>2001</b> , 31, 487-95   | 13.9 | 421 |
| 4  | Iontophoresis in vivo demonstrates a key role for GABA(A) and glycinergic inhibition in shaping frequency response areas in the inferior colliculus of guinea pig. <i>Journal of Neuroscience</i> , <b>2001</b> , 21, 7303-12                                       | 6.6  | 164 |
| 3  | Gap junctions between interneuron dendrites can enhance synchrony of gamma oscillations in distributed networks. <i>Journal of Neuroscience</i> , <b>2001</b> , 21, 9478-86   | 6.6  | 279 |
| 2  | A model of gamma-frequency network oscillations induced in the rat CA3 region by carbachol in vitro. <i>European Journal of Neuroscience</i> , <b>2000</b> , 12, 4093-106   | 3.5  | 216 |
| 1  | A comparison of the effects of propofol with other anaesthetic agents on the centripetal transmission of sensory information. <i>General Pharmacology</i> , <b>1992</b> , 23, 945-63  |      | 38  |