

### **A novel method for monitoring surface membrane trafficking on hippocampal acute slice preparation**

Thomas-Crusells, J.; Vieira, A.; **Saarma, Mart**; Rivera, Claudio Journal of neuroscience methods 2003 / 1/2, p. 159-166  
<https://www.sciencedirect.com/science/article/pii/S0165027003000505>

### **BDNF-induced TrkB activation down-regulates the K+-Cl- cotransporter KCC2 and impairs neuronal Cl-extrusion**

Rivera, Claudio; **Saarma, Mart** Journal of cell biology 2002 / 5, p. 747-752 <https://portal.research.lu.se/en/publications/bdnf-induced-trkb-activation-down-regulates-the-k-cl-cotransporter>

### **Developmental up-regulation of KCC2 in the absence of GABAergic and glutamatergic transmission**

Ludwig, Anastasia; Li, Hong; Saarma, Mart; Kaila, Kai; Rivera, Claudio The European journal of neuroscience 2003 / 12, p. 3199-3206 : ill <https://pubmed.ncbi.nlm.nih.gov/14686894/>

### **Distribution of GABA receptor subunit transcripts in the rat brain**

Wegelius, K.; Pasternack, M.; Hiltunen, J.O.; Rivera, Claudio; Kaila, Kai; **Saarma, Mart**; Reeben, M. European journal of neuroscience 1998 / p. 350-357

### **High-intensity interval and moderate-intensity continuous training on cerebral energy metabolism in older rats.**

Marcourt, Cecile; Rivera, Claudio; **Tuvikene, Jürgen**; Langeard, Antoine; **Esvald, Eli-Eelika**; Cabrera-Cabrera, Florencia; Timmusk, Tõnis; Temprado, Jean-Jacques; Laurin, Jerome GeroScience 2025 / 16 p <https://doi.org/10.1007/s11357-025-01820-5>

### **Mechanism of activity-dependent downregulation of the neuron-specific K-Cl cotransporter KCC2**

Rivera, Claudio; Voipio, Juha; **Saarma, Mart** Journal of neuroscience 2004 / 19, p. 4683-4691  
<https://www.jneurosci.org/content/24/19/4683>

### **A novel N-terminal isoform of the neuron-specific K-Cl cotransporter KCC2**

Uvarov, Pavel; Ludwig, Anastasia; Markkanen, Marika; Pruunsild, Priit; Kaila, Kai; Delpire, Eric; Timmusk, Tõnis; Rivera, Claudio; Airaksinen, Matti S. Journal of biological chemistry 2007 / 42, p. 30570-30576 <https://pubmed.ncbi.nlm.nih.gov/17715129/>

### **Synaptogenesis upregulates KCC2 expression in cultured hippocampal neurons**

Ludwig, Anastasia; **Saarma, Mart**; Kaila, Kai; Rivera, Claudio The 3rd Forum of European Neuroscience 2002 / p. 078.13

### **The K+/Cl- co-transporter KCC2 renders GABA hyperpolarizing during neuronal maturation**

Rivera, Claudio; Voipio, Juha; Payne, John A.; Ruusuvuori, Eva; Lahtinen, Hannele; Lamsa, Karri; Pivola, Ulla; **Saarma, Mart**; Kaila, Kai Nature 1999 / p. 251-255: ill <https://pubmed.ncbi.nlm.nih.gov/9930699/>