

# ICM6012: Cellular and Molecular Neuroscience

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Catterall, W.A. and Yu, F.H. 2006. Painful Channels. *Neuron*. 52, 5 (Dec. 2006), 743–744.  
DOI:<https://doi.org/10.1016/j.neuron.2006.11.017>.

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Desensitization of G protein-coupled receptors and neuronal functions.:  
[http://sfx.library.qmul.ac.uk/qmsfx?ctx\\_ver=Z39.88-2004&ctx\\_enc=info:ofi/enc:UTF-8&ctx\\_tim=2013-07-09T13%3A42%3A07IST&url\\_ver=Z39.88-2004&url\\_ctx\\_fmt=info:ofi/fmt:kev:mtx:ctx&rft\\_id=info:sid/primo.exlibrisgroup.com:primo3-Article-medline&rft\\_val\\_fmt=info:ofi/fmt:kev:mtx:article&rft.genre=article&rft.atitle=Desensitization%20of%20G%20protein-coupled%20receptors%20and%20neuronal%20functions.&rft.jtitle=Annual%20review%20of%20neuroscience&rft.btitle=&rft.aulast=Gainetdinov&rft.auinit=&rft.auinit1=&rft.auinitm=&rft.ausuffix=&rft.au=Gainetdinov%20Raul%20R&rft.aucorp=&rft.date=2004&rft.volume=27&rft.issue=&rft.part=&rft.quarter=&rft.ssn=&rft.spage=107&rft.epage=&rft.pages=107-44&rft.artnum=&rft.issn=0147-006X&rft.eissn=&rft.isbn=&rft.sici=&rft.coden=&rft\\_id=info:doi/&rft.object\\_id=&svc\\_val\\_fmt=info:ofi/fmt:kev:mtx:sch\\_svc&rft.eisbn=&rft\\_dat=%3Cmedline%3E15217328%3C/medline%3E&rft\\_id=info:oai/&svc.fulltext=yes](http://sfx.library.qmul.ac.uk/qmsfx?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&ctx_tim=2013-07-09T13%3A42%3A07IST&url_ver=Z39.88-2004&url_ctx_fmt=info:ofi/fmt:kev:mtx:ctx&rft_id=info:sid/primo.exlibrisgroup.com:primo3-Article-medline&rft_val_fmt=info:ofi/fmt:kev:mtx:article&rft.genre=article&rft.atitle=Desensitization%20of%20G%20protein-coupled%20receptors%20and%20neuronal%20functions.&rft.jtitle=Annual%20review%20of%20neuroscience&rft.btitle=&rft.aulast=Gainetdinov&rft.auinit=&rft.auinit1=&rft.auinitm=&rft.ausuffix=&rft.au=Gainetdinov%20Raul%20R&rft.aucorp=&rft.date=2004&rft.volume=27&rft.issue=&rft.part=&rft.quarter=&rft.ssn=&rft.spage=107&rft.epage=&rft.pages=107-44&rft.artnum=&rft.issn=0147-006X&rft.eissn=&rft.isbn=&rft.sici=&rft.coden=&rft_id=info:doi/&rft.object_id=&svc_val_fmt=info:ofi/fmt:kev:mtx:sch_svc&rft.eisbn=&rft_dat=%3Cmedline%3E15217328%3C/medline%3E&rft_id=info:oai/&svc.fulltext=yes).

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Involvement of Na<sup>+</sup> channels in pain pathways:

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Nociceptor-Specific Gene Deletion Reveals a Major Role for Na v1.7 (PN1) in Acute and Inflammatory Pain:

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%20(PN1)%20in%20Acute%20and%20Inflammatory%20Pain&rft.jtitle=Proceedings%20of%20the%20National%20Academy%20of%20Sciences%20of%20the%20United%20States%20of%20America&rft.btitle=&rft.aulast=Nassar&rft.auinit=&rft.auinit1=&rft.auinitm=&rft.ausuffix=&rft.au=Nassar%2C%20Mohammed%20A.&rft.aucorp=&rft.date=20040824&rft.volume=101&rft.issue=34&rft.part=&rft.quarter=&rft.ssn=&rft.spage=12706&rft.epage=12711&rft.pages=12706-12711&rft.artnum=&rft.issn=00278424&rft.eissn=&rft.isbn=&rft.sici=&rft.coden=&rft\_id=info:doi/&rft.object\_id=&svc\_val\_fmt=info:ofi/fmt:kev:mtx:sch\_svc&rft.eisbn=&rft\_dat=%3Cjstor%3E10.2307/3373047%3C/jstor%3E&rft\_id=info:oai/&svc.fulltext=yes.

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Painful channels:

[http://ac.els-cdn.com/S0896627306009123/1-s2.0-S0896627306009123-main.pdf?\\_tid=5fb8007c-3c3f-11e4-9935-00000aab0f01&acdnat=1410720541\\_599d37339c4f1b7e8057a32d4bdff321](http://ac.els-cdn.com/S0896627306009123/1-s2.0-S0896627306009123-main.pdf?_tid=5fb8007c-3c3f-11e4-9935-00000aab0f01&acdnat=1410720541_599d37339c4f1b7e8057a32d4bdff321).

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SCN9A mutations in paroxysmal extreme pain disorder: allelic variants underlie distinct channel defects and phenotypes:

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Baker MD and Wood JN (2001) Involvement of Na<sup>+</sup> channels in pain pathways. Trends Pharmacol Sci 22:27-31. Review.

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Nociceptor-specific gene deletion reveals a major role for NaV1.7 (PN1) in acute and inflammatory pain.