



## Publikationen (nur auf Englisch verfügbar)

### Research articles

1. Pitzer C, **Kuner R**, Tappe-Theodor A  
Express: Voluntary and evoked behavioral correlates in neuropathic pain states under different housing conditions. *Mol Pain* 12: doi:10.1177/1744806916656635, 2016
2. Florez-Paz D, Bali KK, **Kuner R**, Gomis A  
A critical role for Piezo2 channels in the mechanotransduction of mouse proprioceptive neurons. *Sci Rep* 6:25923. doi: 10.1038/srep25923, 2016
3. Gritsch S, Bali KK, **Kuner R**, Vardeh D  
Functional characterization of a mouse model for central post-stroke pain. *Mol Pain* 12: doi:1177/1744806916629049, 2016
4. Eliava M, Melchior M, Knobloch-Bollmann HS, Wahis J, da Silva Gouveia M, Tang Y, Ciobanu AC, Triana Del Rio R, Roth LC, Althammer F, Goumon Y, Gruber T, Petit-Demoulière N, Busnelli M, Chini B, Tan LL, Mitre M, Froemke RC, Chao MV, Giese G, Sprengel R, **Kuner R**, Poisbeau P, Seeburg PH, Stoop R, Charlet A, Grinevich V  
A new population of parvocellular oxytocin neurons controlling magnocellular neuron activity and inflammatory pain processing. *Neuron* 89:1291-304, 2016
5. Nees TA, Tappe-Theodor A, Sliwinski C, Motsch M, Rupp R, **Kuner R**, Weidner N, Blesch A  
Early-onset treadmill training reduces mechanical allodynia and modulates calcitonin gene-related peptide fiber density in lamina III/IV in a mouse model of spinal cord contusion injury. *Pain* 157:687-97, 2016
6. Njoo C, Agarwal N, Lutz B, **Kuner R**  
The cannabinoid receptor CB1 interacts with the WAVE1 complex and plays a role in actin dynamics and structural plasticity in neurons. *PLoS Biol* 13(10):e1002286, 2015
7. Selvaraj D, Gangadharan V, Michalski CW, Kurejova M, Stösser S, Srivastava K, Schweizerhof M, Waltenberger J, Ferrara N, Heppenstall P, Shibuya M, Augustin HG, **Kuner R**  
A functional role for VEGFR1 expressed in peripheral sensory neurons in cancer pain. *Cancer Cell* 27:780-96, 2015
8. Lu J, Luo C, Bali KK, Xie RG, Mains RE, Eipper BA, **Kuner R**  
A role for Kalirin-7 in nociceptive sensitization via activity-dependent modulation of spinal synapses. *Nat Commun* 6:6820, 2015
9. Vicuña L, Strochlic DE, Latremoliere A, Bali KK, Simonetti M, Husainie D, Prokosch S, Riva P, Griffin RS, Njoo C, Gehrig S, Mall MA, Arnold B, Devor M, Woolf CJ, Liberles SD, Costigan M, **Kuner R**  
The serine protease inhibitor Serpin A3N attenuates neuropathic pain by inhibiting T cell-derived leukocyte elastase. *Nat Med* 21:518-23, 2015



10. Selvaraj D, **Kuner R**  
Molecular players of tumor-nerve interactions. *Pain* 156:6-7, 2015
11. Gritsch S, Lu J, Thilemann S, Wörtge S, Möbius W, Bruttger J, Karram K, Ruhwedel T, Blanfeld M, Vardeh D, Waisman A, Nave KA, **Kuner R**  
Oligodendrocyte ablation triggers central pain independently of innate or adaptive immune responses in mice. *Nat Commun* 5:5472, 2014
12. Chen JT, Guo D, Campanelli D, Frattini F, Mayer F, Zhou L, **Kuner R**, Heppenstall PA, Knipper M, Hu J  
Presynaptic GABAergic inhibition regulated by BDNF contributes to neuropathic pain induction. *Nat Commun* 5:5331, 2014
13. Simonetti M, Agarwal N, Stösser S, Bali KK, Karaulanov E, Kamble R, Pospisilova B, Kurejova M, Birchmeier W, Niehrs C, Heppenstall P, **Kuner R**  
Wnt-Fzd signaling sensitizes peripheral sensory neurons via distinct non-canonical pathways. *Neuron* 83:104-121, 2014
14. Njoo C, Heintz C, **Kuner R**  
In vivo si RNA transfection and gene knockdown in spinal cord via rapid noninvasive lumbar intrathecal injections in mice. *J Vis Exp* Mar 22(85), 2014. doi: 10.3791/51229
15. Bali KK, Hackenberg M, Lubin A, **Kuner R**, Devor M  
Sources of individual variability: miRNAs that predispose to neuropathic pain identified using genome-wide sequencing. *Mol Pain* 10:22, 2014
16. Worzfeld T, Swiercz JM, Sentürk A, Genz B, Korostylev A, Deng S, Xia J, Hoshino M, Epstein JA, Chan AM, Vollmar B, Acker-Palmer A, **Kuner R**, Offermanns S  
Genetic dissection of plexin signaling in vivo. *PNAS* 111:2194-2199, 2014
17. Lu R, Lukowski R, Sausbier M, Zhang DD, Sisignanon M, Schuh CD, **Kuner R**, Ruth P, Geisslinger G, Schmidtke A  
BKCa channels expressed in sensory neurons modulate inflammatory pain in mice. *Pain* 155:556-65, 2014
18. Wirotanseng LN, **Kuner R**, Tappe-Theodor A  
Gq rather than G11 preferentially mediates nociceptor sensitization. *Mol Pain* 9:54, 2013
19. Kress M, Hüttenhofer A, Landry M, **Kuner R**, Favereaux A, Greenberg D, Bednarik J, Heppenstall P, Kronenberg F, Malcangio M, Rittner H, Uçeyler N, Trajanoski Z, Mouritzen P, Birklein F, Sommer C, Soreq H  
microRNAs in nociceptive circuits as predictors of future clinical applications. *Front Mol Neurosci* 6:33, 2013
20. Bali KK, Venkataramani V, Satagopam VP, Gupta P, Schneider R, **Kuner R**  
Transcriptional mechanisms underlying sensitization of peripheral sensory neurons by granulocyte-/granulocyte-macrophage colony stimulating factors. *Mol Pain* 9:48, 2013
21. Bali KK, Selvaraj D, Satagopam VP, Lu J, Schneider R, **Kuner R**  
Genome-wide identification and functional analyses of micro RNA signatures associated with cancer pain. *EMBO Mol Med* 5:1740-1758, 2013
22. Gangadharan V, Selvaraj D, Kurejova M, Njoo C, Gritsch S, Skoricová D, Horstmann H, Offermanns S, Brown AJ, Kuner T, Tappe-Theodor A, **Kuner R**



- A novel biological role for the phospholipid lysophosphatidylinositol in nociceptive sensitization via activation of diverse G-protein signaling pathways in sensory nerves in vivo. *Pain* 154:2801-2812, 2013
23. Gaffal E, Cron M, Glodde N, Bald T, **Kuner R**, Zimmer A, Lutz B, Tüting T  
Cannabinoid 1 receptors in kretinocytes modulate proinflammatory chemokine secretion and attenuate contact allergic inflammation. *J Immunol* 190:4929-4936, 2013
  24. Simonetti M, Hagenston AM, Vardeh D, Freitag E, Mauceri D, Lu J, Satagopam VP, Schneider R, Costigan M, Bading H, **Kuner R**  
Nuclear calcium signaling in spinal neurons drives a genomic program required for persistent inflammatory pain. *Neuron* 77:43-57, 2013
  25. Lu J, Kurejova M, Wirotanseng LN, Linker RA, **Kuner R**, Tappe-Theodor A  
Pain in experimental autoimmune encephalitis: a comparative study between different mouse models. *J Neuroinflammation* 9:233, 2012
  26. Luo C, Gangadharan V, Bali KK, Xie RG, Agarwal N, Kurejova M, Tappe-Theodor A, Tegeder I, Feil S, Lewin G, Polgar E, Todd AM, Schlossmann J, Hofmann F, Liu DL, Hu SJ, Feil R, Kuner T, **Kuner R**  
Presynaptically localized cyclic GMP-dependent protein kinase 1 is a key determinant of spinal synaptic potentiation and pain hypersensitivity. *PLoS Biol* 10(3):e1001283, 2012
  27. Sidiropoulos PN, Mieke M, Bock T, Tinelli E, Oertly CI, **Kuner R**, Meijer D, Wollscheid B, Niemann A, Suter U  
Dynamin 2 mutations in Charcot-Marie-Tooth neuropathy highlight the crucial importance of clathrin-mediated endocytosis in myelination. *Brain* 135:1395-1411, 2012
  28. Tappe-Theodor A, Constantin CE, Tegeder I, Lechner SG, Langeslag M, Lepczynsky P, Wirotanseng RI, Kurejova M, Agarwal N, Nagy G, Todd A, Wettschureck N, Offermanns S, Kress M, Lewin GR, **Kuner R**  
Galpha(q/11) signaling tonically modulates nociceptor function and contributes to activity-dependent sensitization. *Pain* 153:184-196, 2012
  29. Tappe-Theodor A, Fu Y, **Kuner R**, Neugebauer V  
Homer 1a signaling in the amygdala counteracts pain-related synaptic plasticity, mGluR1 function and pain behaviors. *Mol Pain* 7:38, 2011
  30. Witschi R, Punnakkal P, Paul J, Walczak JC, Cervero F, Fritschy JM, **Kuner R**, Keist R, Rudolph U, Zeilhofer HU  
Presynaptic alpha2-GABAA receptors in primary afferent depolarization and spinal pain control. *J Neurosci* 31:8134-8142, 2011
  31. Gangadharan V, Wang R, Ulzhöfer B, Luo C, Bardoni R, Bali KK, Agarwal N, Tegeder I, Hildebrandt U, Nagy GG, Todd AJ, Ghirri A, Häussler A, Sprengel R, Seeburg PH, Macdermott AB, Lewin GR, **Kuner R**  
Peripheral calcium-permeable AMPA receptors regulate chronic inflammatory pain in mice. *J Clin Invest* 121:1608-1623, 2011
  32. Li KC, Zhang FX, Li CL, Wang F, Yu MY, Zhong YQ, Zhang KH, Lu YJ, Wang Q, Ma XL, Yao JR, Wang JY, Lin LB, Han M, Zhang YQ, **Kuner R**, Xiao HS, Bao L, Gao X, Zhang X  
Follistatin-like 1 suppresses sensory afferent transmission by activating Na(+),K(+)-ATPase. *Neuron*



- 69:974-987, 2011
33. Mair N, Benetti C, Andratsch M, Leitner MG, Constantin CE, Camprubí-Robles M, Quarta S, Biasio W, **Kuner R**, Gibbins IL, Kress M, Haberberger RV  
Genetic evidence for involvement of neuronally expressed S1P<sub>1</sub> receptor in nociceptor sensitization and inflammatory pain. *PLoS One* 6:e17268, 2011
  34. Bishay P, Schmidt H, Marian C, Häussler A, Wijnvoord N, Ziebell S, Metzner J, Koch M, Myrczek T, Bechmann I, **Kuner R**, Costigan M, Dehghani F, Geisslinger G, Tegeder I  
R-flurbiprofen reduces neuropathic pain in rodents by restoring endogenous cannabinoids. *PLoS One* 5:e10628, 2010
  35. Kurejova M, Nattenmüller U, Hildebrandt U, Selvaraj D, Stösser S, **Kuner R**  
An improved behavioural assay demonstrates that ultrasound vocalizations constitute a reliable indicator of chronic cancer pain and neuropathic pain. *Mol Pain* 6:18, 2010
  36. Hirschberg A, Deng S, Korostylev A, Paldy E, Costa MR, Worzfeld T, Vodrazka P, Wizenmann A, Götz M, Offermanns S, **Kuner R**  
Gene deletion mutants reveal a role for semaphorin receptors of the Plexin-B family in mechanisms underlying corticogenesis. *Mol Cell Biol* 30:764-780, 2010
  37. Stösser S, Agarwal N, Tappe-Theodor A, Yanagisawa M, **Kuner R**  
Dissecting the functional significance of endothelin A receptors in peripheral nociceptors *in vivo* via conditional gene deletion. *Pain* 148:206-214, 2009
  38. Gangadharan V, Agarwal N, Brugger S, Tegeder I, Bettler B, **Kuner R**, Kurejova M  
Conditional gene deletion reveals functional redundancy of GABA-B receptors in peripheral nociceptors *in vivo*. *Mol Pain* 5:68, 2009
  39. Andratsch M, Mair N, Constantin CE, Scherbakov N, Benetti C, Vogl C, Sailer CA, Üceyler N, Brockhaus J, Martini R, Sommer C, Zeilhofer HU, Müller W, **Kuner R**, Davis JB, Rose-John S, Kress M  
A key role for gp130 expressed on peripheral sensory nerves in pathological pain. *J Neurosci* 29(43):13473-13483, 2009
  40. Worzfeld T, Rauch P, Karram K, Trotter J, **Kuner R**, Offermanns S  
Mice lacking Plexin-B3 display normal CNS morphology and behaviour. *Mol Cell Neurosci* 42:372-381, 2009
  41. Bockhart V, Constantin C, Häussler A, Wijnvoord N, Kanngiesser M, Myrczek T, Pickert G, Popp L, Sobotzik JM, Pasparakis M, **Kuner R**, Geisslinger G, Schultz C, Kress M, Tegeder I  
Inhibitor kappa B kinase beta deficiency in primary nociceptive neurons increases TRP-channel sensitivity. *J Neurosci* 29(41): 12919-12929, 2009
  42. Vodrazka P, Korostylev A, Swiercz JM, Worzfeld T, Deng S, Fazzari P, Hirschberg A, Tamagnone L, Offermanns S, **Kuner R**  
The Sema4D-Plexin-B signaling complex regulates dendritic complexity in developing neurons via diverse pathways. *Eur J Neurosci* 30(7):1193-1208, 2009
  43. Toyoda H, Zhao MG, Ulzhofer B, Wu LJ, Xu H, Seeburg PH, Sprengel R, **Kuner R**, Zhuo M  
Roles of the AMPA receptor subunit GluA1 but not GluA2 in synaptic potentiation and activation of ERK in the anterior cingulate cortex. *Mol Pain* 5:46, 2009



44. Schweizerhof M, Stösser S, Kurejova M, Njoo C, Gangadharan V, Agarwal N, Schmelz M, Bali KK, Christoph M, Bruggser S, Dickenson A, Simone D, **Kuner R**  
Hematopoietic colony stimulating factors mediate tumor-nerve interactions and bone cancer pain. *Nat Med* 15(7):802-807, 2009
45. Liu Y, Yang FC, Okuda T, Dong X, Zylka MJ, Chen CL, Anderson DJ, **Kuner R**, Ma Q  
Mechanisms of compartmentalized expression of Mrg class G-protein-coupled sensory receptors. *J Neurosci* 28(1):125-132, 2008
46. Luo C, Seeburg PH, Sprengel R, **Kuner R**  
Activity-dependent potentiation of calcium signals in spinal sensory networks in inflammatory pain states. *Pain* 140(2):358-367, 2008
47. Schmidtko A, Luo C, Gao W, Geisslinger G, **Kuner R**, Tegeder I  
Genetic deletion of synapsin II reduces neuropathic pain due to reduced glutamate but increased GABA in the spinal cord dorsal horn. *Pain* 139(3):632-643, 2008
48. Korostylev A, Worzfeld T, Deng S, Friedel RH, Swiercz JM, Vodrazka P, Maier V, Hirschberg A, Ohoka Y, Inagaki S, Offermanns S, **Kuner R**  
A functional role for Semaphorin 4D-Plexin-B1 interactions in epithelial branching morphogenesis during organogenesis. *Development* 135(20):3333-3343, 2008
49. Agarwal N, Pacher P, Tegeder I, Amaya F, Constantin C, Brenner GJ, Rubino T, Michalski CW, Marsicano G, Monory K, Mackie K, Marian C, Batkai S, Parolaro D, Fischer MJ, Reeh P, Kunos G, Kress M, Lutz B, Woolf CJ, **Kuner R**  
Nociceptor-specific conditional gene deletion reveals that cannabinoids mediate analgesia largely via peripheral type 1 cannabinoid receptors. *Nat Neurosci* 10(7):870-879, 2007
50. Deng S, Hirschberg A, Worzfeld T, Penachioni JY, Korostylev A, Swiercz JM, Vodrazka P, Mauti O, Stoeckli ET, Tamagnone L, Offermanns S, **Kuner R**  
Plexin-B2, but not plexin-B1, critically modulates neuronal migration and patterning of the developing nervous system *in vivo*. *J Neurosci* 27(23):6333-6347, 2007
51. Tappe-Theodor A, Agarwal N, Katona I, Rubino T, Martini L, Swiercz JM, Mackie K, Monyer H, Parolaro D, Whistler J, Kuner T, **Kuner R**  
A molecular basis of analgesic tolerance to cannabinoids. *J Neurosci* 27(15): 4165-4177, 2007
52. Michalski CW, Laukert T, Sauliunaite D, Pacher P, Bergmann F, Agarwal N, Su Y, Giese T, Giese NA, Bátkai S, Friess H, **Kuner R**  
Cannabinoids ameliorate pain and reduce disease pathology in caerulein-induced acute pancreatitis. *Gastroenterology* 132(5):1968-1978, 2007
53. Pareek TK, Keller J, Kesavapany S, Agarwal N, **Kuner R**, Pant HC, Iadarola MJ, Brady RO, Kulkarni AB  
Cyclin-dependent kinase 5 modulates nociceptive signaling through direct phosphorylation of transient receptor potential vanilloid 1. *Proc Natl Acad Sci USA* 104(2): 660-665, 2007
54. Tappe A, Klugmann M, Luo C, Hirlinger D, Agarwal N, Benrath J, Ehrenguber MU, Doring MJ, **Kuner R**  
Synaptic scaffolding protein Homer1a protects against chronic inflammatory pain. *Nat Med* 12(6): 677-681, 2006



55. Tappe A, **Kuner R**  
Regulation of motor performance and striatal function by synaptic scaffolding proteins of the Homer1 family. *Proc Natl Acad Sci USA* 103(3): 774-779, 2006
56. Zuliani C, Kleber S, Klussmann S, Wenger T, Kenzelmann M, Schreglmann N, Martinez A, Del Rio JA, Soriano E, Vodrazka P, **Kuner R**, Groene HJ, Herr I, Krammer PH, Martin-Villalba A  
Control of neuronal branching by the death receptor CD95 (Fas/Apo-1). *Cell Death Differ* 13(1): 31-34, 2005
57. **Kuner R**, Groom A, Bresink I, Kornau HC, Stefovskaja V, Müller G, Hartmann B, Tschauer K, Waibel S, Ludolph AC, Ikonomidou C, Seeburg PH, Turski L  
Late-onset motoneuron disease caused by transgenic expression of a functionally modified AMPA receptor subunit. *Proc Natl Acad Sci USA* 102(16): 5826-5831, 2005
58. Dreyer J, Schleicher M, Tappe A, Schilling K, Kuner T, Kusumawidjaja G, Müller-Esterl W, Oess S, **Kuner R**  
(NOS)-interacting protein interacts with neuronal NOS and regulates its distribution and activity. *J Neurosci* 24(46): 10454-10465, 2004.
59. Hartmann B, Ahmadi S, Heppenstall P, Zeilhofer HU, Lewin G, Schott C, Seeburg PH, Sprengel R, **Kuner R**  
The AMPA receptor subunits, GluR-A and GluR-B reciprocally modulate spinal synaptic plasticity and inflammatory pain. *Neuron* 44(4): 637-650, 2004.
60. Hartmann J, Blum R, Kovalchuk Y, Adelsberger H, **Kuner R**, Durand GM, Miyata M, Kano M, Offermanns S, Konnerth A  
Distinct roles of Gaq and Gai1 for Purkinje cell signaling and motor behavior. *J Neurosci* 24(22): 5119-5130, 2004.
61. Swiercz JM, **Kuner R**, Offermanns S  
Plexin-B1/Rho-GEF-mediated RhoA activation involves the receptor tyrosine kinase ErbB-2. *J Cell Biol* 65(6): 869-880, 2004.
62. Worzfeld T, Püschel A, Offermanns S, **Kuner R**  
Plexin-B family members demonstrate non-redundant expression patterns in the developing mouse nervous system: A anatomical basis for morphogenetic effects of Sema4D during development. *Eur J Neurosci* 19(10): 2622-2632, 2004.
63. Agarwal N, Offermanns S, **Kuner R**  
Conditional gene targeting in neurons of the dorsal root ganglia and trigeminal ganglia. *Genesis* 38(3): 122-129, 2004.
64. Schneider A, Laage R, von Ahsen O, Fischer A, Rossner M, Scheek S, Grünewald S, **Kuner R**, Weber D, Krüger C, Klaussner B, Götz B, Hiemisch H, Newrzella D, Martin-Villalba A, Bach A, Schwaninger M  
Identification of regulated genes during permanent focal cerebral ischemia: Characterization of the protein kinase 9b5/MARKL1/MARK4. *J Neurochem* 88(5): 1114-1126, 2004.
65. **Kuner R**, Teismann P, Trutzel A, Naim J, Richter A, Schmidt N, Bach A, Feger B, Schneider A  
TorsinA, the gene linked to early-onset dystonia, is upregulated by the dopaminergic toxin MPTP in mice. *Neurosci Lett* 355(1-2): 126-130, 2004.



66. **Kuner R**, Teismann P, Trutzel A, Naim J, Richter A, Schmidt N, Ahsen O, Bach A, Ferger B, Schneider A  
TorsinA protects against oxidative stress in COS cells and PC12 cells. *Neurosci Lett* 350(3): 153-156, 2003.
67. Dreyer J, Hirlinger D, Müller-Esterl W, Oess S, **Kuner R**  
Spinal upregulation of the nitric oxide synthase-interacting protein NOSIP in a rat model of inflammatory pain. *Neurosci Lett* 350(1): 13-16, 2003.
68. **Kuner R**, Swiercz JM, Zywiets A, Tappe A, Offermanns S  
Characterization of the expression of PDZ-RhoGEF, LARG and Galpha12/Galpha1 proteins in the murine nervous system. *Eur J Neurosci.* 16(12): 2333-2341, 2002.
69. Swiercz JM\*, **Kuner R\***, Behrens J, Offermanns S  
Plexin-B1 directly interacts with PDZ-RhoGEF/LARG to regulate RhoA and growth cone morphology. *Neuron* 35(1): 51-63, 2002.  
\* equally-contributing authors
70. Grunewald S, Schupp BJ, Ikeda SR, **Kuner R**, Steigerwald F, Kornau HC, Kohr G  
Importance of the gamma-aminobutyric acid (B) receptor C-termini for G-protein coupling. *Mol Pharmacol* 1(5): 1070-1080, 2002.
71. **Kuner R**, Kohr G, Grunewald S, Eisenhardt G, Bach A, Kornau HC  
Role of Heteromer formation in GABA-B receptor function. *Science* 283: 74-77, 1999.
72. Feldemeyer D, Kask K, Brusa R, Kornau HC, **Kolhekar R**, Rozov A, Burnashev N, Jensen V, Hvalby O, Sprengel R, Seeburg PH  
Neurological dysfunctions in mice expressing different levels of the Q/R site-unedited AMPAR subunit GluR-B. *Nat Neurosci* 2(1): 57-64, 1999.
73. **Kolhekar R**, Murphy S, Gebhart GF  
Thalamic NMDA receptors modulate inflammation-produced hyperalgesia in the rat. *Pain* 71: 31-40, 1997.
74. Storck T, Kruth U, **Kolhekar R**, Sprengel R, Seeburg, PH  
Rapid construction in yeast of complex targeting vectors for gene manipulations in the mouse. *Nucleic Acids Res* 24(22): 4594-4596, 1996.
75. **Kolhekar R**, Gebhart GF  
Modulation of spinal visceral nociceptive transmission by NMDA receptor activation in the rat. *J Neurophysiol* 75(6): 2344-2353, 1996.
76. **Kolhekar R**, Meller ST, Gebhart GF  
NMDA-mediated changes in thermal nociception: allosteric modulation at glycine and polyamine recognition sites. *Neuroscience* 63: 923-936, 1994.
77. **Kolhekar R**, Gebhart GF  
NMDA and quisqualate modulation of visceral nociception in the rat. *Brain Res* 651: 215-226, 1994.
78. **Kolhekar R**, Meller ST, Gebhart GF  
Characterisation of the role of spinal NMDA receptors in thermal nociception in the rat. *Neuroscience* 57(2): 385-395, 1993.

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## Reviews and book chapters

1. **Kuner R**, Flor H  
Structural plasticity and reorganisation in chronic pain. *Nat Rev Neurosci* 18: 20-30, 2016. doi: 10.1038/nrn.2016.162
2. **Kuner R**  
Spinal excitatory mechanisms of pathological pain. *Pain* 156 Suppl 1:S11-7, 2015
3. Bali KK, **Kuner R**  
Noncoding RNAs: key molecules in understanding and treating pain. *Trends Mol Med* 20:437-448, 2014
4. Tappe-Theodor A, **Kuner R**  
Studying ongoing and spontaneous pain in rodents - challenges and opportunities. *Eur J Neurosci* 39:1881-1890, 2014
5. Luo C, Kuner T, **Kuner R**  
Synaptic plasticity in pathological pain. *Trends Neurosci* 37:343-355, 2014
6. Heintz C, **Kuner R**  
Genetic models in pain research. In: Handwerker HO, Arendt-Nielsen L (Eds.): *Pain models*. IASP Press, pp 61-79, 2013
7. Gangadharan V, **Kuner R**  
Pain hypersensitivity mechanisms at a glance. *Dis Model Mech* 6:889-895, 2013
8. Stösser S, Schweizerhof M, **Kuner R**  
Hematopoietic colony-stimulating factors: new players in tumor-nerve interactions. *J Mol Med* 89:321-329, 2011
9. **Kuner R**  
Central mechanisms of pathological pain. *Nat Med* 16:1258-1266, 2010
10. Kress M, **Kuner R**  
Mode of action of cannabinoids on nociceptive nerve endings. *Exp Brain Res* 196:79-88, 2009
11. **Kuner R**  
Genetic approaches for the study of pain. In: Zhuo M, Gebhart GF (Eds.): *Molecular Pain*. Vol. 1. Higher Education Press, pp 235-243, 2007
12. **Kuner R**, Groom A, Bresink I, Kornau HC, Stefovská V, Müller G, Hartmann B, Tschauer K, Waibel S, Ludolph AC, Ikonomidou C, Seeburg PH, Turski L  
Mechanisms of disease: Late-onset motoneuron disease caused by transgenic expression of a functionally modified AMPA receptor subunit. *Ann NY Acad Sci* 1053:269-286, 2005
13. Gebhart GF, **Kuner R**, Jones RCW, Bielefeldt K  
Visceral Hypersensitivity. In: Handwerker H, Brune K (Eds): *Hyperalgesia: Molecular Mechanisms and clinical implications*. IASP Press, Vol. 30, pp 87-104, 2004
14. **Kuner R**  
Nociception. In: Offermanns S, Rosenthal W (Eds): *Encyclopedic Reference of Molecular Pharmacology*. Springer Verlag, p. 658, 2003.





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15. Jerecic J, Single F, Kruth U, Krestel H, **Kolhekar R**, Storck T, Kask K, Higuchi M, Sprengel R, Seeburg PH  
Studies on conditional gene expression in the brain. *Ann NY Acad Sci* 30; 868: 7-37, 1999.