

1. **Csernoch, L.**, L. Kovács és G. Szűcs (1987). Perchlorate and the relationship between charge movement and contractile activation in frog skeletal muscle fibres. *Journal of Physiology*, 390, 213-227. **I.F.:** **4.727**, 42.
 1. Brum, G.: *J. Physiol.* 398, 475. 1988.
 2. Huang, C.L.-H.: *Physiol. Rev.* 68, 1197. 1988.
 3. Stephenson, E.W.: *J. Gen. Physiol.* 93, 173. 1989.
 4. Chandler, W.K.: *J. Gen. Physiol.* 96, 225. 1990.
 5. Delay, M.: *J. Physiol.* 425, 449. 1990.
 6. Fill, M.: *Pflügers Arch.* 415, 688. 1990.
 7. Heiny, J.A.: *Biophys. J.* 57, 147. 1990.
 8. Hui, C.S.: *J. Gen. Physiol.* 96, 257. 1990.
 9. Rios, E.: *J. Muscle R.* 12, 127. 1991
 10. Rios E.: *Physiol. Rev.* 71, 849. 1991^R
 11. Moonga B. S.: *Exp. Physiol.* 76, 923. 1991.
 12. Zaidi, M.: *Exp. Physiol.* 76, 923. 1991.
 13. Györke, S.: *J. Physiol.* 456, 443. 1992.
 14. Oba, T.: *Biophys. J.* 63, 1416. 1992.
 15. Oba, T.: *Can. J. Physiol. Pharmacol.* 70, 225. 1992.
 16. Dulhunty, A.: *J. Physiol.* 448, 99. 1992.
 17. Dulhunty, A.: *Prog. Biophys. Mol. Biol.* 57, 181. 1992.
 18. Gonzalez, A.: *J. Gen. Phys.* 102, 373. 1993.
 19. Ma, J.: *J. Gen. Phys.* 102, 423. 1993.
 20. Rios, E.: *J. Gen. Phys.* 102, 449. 1993.
 21. Gallant, E.M.: *Am. J. Phys.* 264, C559. 1993.
 22. Larssonnyren, G.: *Bioscience Reports* 13, 107. 1993.
 23. Nihonyanagi, K.: *Eur. J. Pharm.* 238, 149. 1993.
 24. Yu, X.: *FEBS Letters* 328, 301. 1993.
 25. Huang, C.L.H.: *J. Phys.* 468, 107. 1993.
 26. Khammari, A.: *J. Appl. Physiol.* 77, 2420. 1994.
 27. Fruen, B.R.: *Am. J. Physiol.* 266, C1729. 1994.
 28. Hui, C.S.: *J. Physiol.* 474, 275. 1994.
 29. Frankel, B.J.: *Pancreas* 9, 550. 1994.
 30. Yano, M.: *Biochemistry* 34, 12584. 1995.
 31. Melzer, W.: *Biochim. Biophys. Acta* 1241, 59. 1995.
 32. Larssonnyren, G.: *Biochem. J.* 314, 167. 1996.
 33. Oba, T.: *Am. J. Physiol.-Cell Phys.* 41, C41.1997.
 34. Huang, C.L.H.: *J. Physiol.* 506, 699. 1998.
 35. Alden KJ.: *Am J. Physiol* 283, C941. 2002
2. Kovács, L., G. Szűcs és **L. Csernoch** (1987). Calcium transients and calcium binding to troponin at the contraction threshold in skeletal muscle. *Biophysical Journal*, 51, 521-526. **I.F.:** **4.524**, 7.
 1. Huang, C.L.-H.: *Physiol. Rev.* 68, 1197. 1988.
 2. Holly, M.: *Gen. Physiol. Biophys.* 8, 539. 1989.
 3. Lacinova, L.: *Gen. Physiol. Biophys.* 9, 113. 1990.
 4. *Monographs of The Physiological Society Vol.44*, Oxford Univ. Press Inc., New York, 1993.
 5. Getz E.E.B.: *Am. J. Phys. Cell Phys.* 41, C1087. 1997.
3. **Csernoch, L.**, C.L.-H. Huang, G. Szűcs, L. Kovács. (1988). Differential effects of tetracaine on charge movements and Ca²⁺ signals in frog skeletal muscle. *Journal of General Physiology*, 92, 601-612. **I.F.:** **5.101**, 28
 1. Nasriseb, M.: *Eur. J. Pharm.* 171, 97. 1989.
 2. Chandler, W.K.: *J. Gen. Physiol.* 96, 225. 1990.
 3. Hollingworth, S.: *J. Physiol.* 421, 633. 1990.
 4. Hui, C.S.: *J. Gen. Physiol.* 96, 257. 1990.
 5. Nasriseb, M.: *Pflügers Arch.* 416, 106. 1990.
 6. Huang, C.L.-H.: *J. Gen. Phys.* 96, 535. 1990.
 7. Rios E.: *Physiol. Rev.* 71, 849. 1991^R
 8. Garcia, J. J. *Physiol. London* 440, 403. 1991
 9. Huang, C.: *J. Gen. Phys.* 98, 249. 1991.
 10. Losavio, A.S.: *J. App. Physiol.* 71, 1409. 1991.
 11. Györke S.: *J. Physiol.* 457, 195. 1992.
 12. Hui C.S.: *J. Gen. Physiol.* 99, 985. 1992.
 13. Rios E.: *Ann. Rev. Physiol.* 54, 109. 1992.
 14. Xu, L.: *J. Gen. Phys.* 101, 207. 1993.
 15. Huang, C.L.H.: *J. Phys.* 468, 107. 1993.
 16. *Monographs of The Physiological Society Vol.44*, Oxford Univ. Press Inc., New York, 1993.
 17. Jaimovich, E.: *Cell Calcium* 15, 356. 1994.
 18. Hui, C.S.: *J. Physiol* 474, 275. 1994
 19. Hidalgo, J.: *Cell Calcium* 18, 140. 1995.
 20. O'Brien, J.: *Biophys. J.* 68, 471. 1995
 21. Huang, C.L.H.: *J. Physiol.* 501, 589. 1997.
 22. Mears D.: *Cell Calcium* 25, 59. 1999. (Scopus)

23. Brum, G.: *Biophys. J.* **85**, 245. 2003.
 24. Hui, C.S.: *Biophys. J.* **88**, 1030. 2005.
 25. Piriz N.: *J. Mus. Res. Cell. Mot.* **27**, 221. 2006.
4. Feldmeyer, D., **L. Csernoch**, L. Kovács, and R. Thieleczek (1988). Effects of guanidinium on EC coupling and tension generation in frog skeletal muscle. *J. Muscle Res. Cell Motil.* **9**, 541-551. **I.F.:** **2.905**, 9
 1. Chandler, W.K.: *J. Gen. Physiol.* **96**, 225. 1990.
 2. Hui, C.S.: *J. Gen. Physiol.* **96**, 257. 1990.
 3. Fill, M.: *Pflugers Arch.* **415**, 688. 1990.
 4. Heiny, J.A.: *Biophys. J.* **57**, 147. 1990.
 5. Rios E.: *Phys. Rev.* **71**, 849. 1991R
 6. Hui, C.S.: *J. Physiol.* **474**, 275. 1994.
 7. Melzer, W.: *Biochim. Biophys. Acta* **1241**, 59. 1995.
 8. Larsson-N, G.: *Pflügers Arch.* **441**, 587. 2001.
 5. **Csernoch, L.**, L. Kovács, B. Nilius, and G. Szücs (1990). Caffeine and the myoplasmic calcium removal mechanisms in cut frog skeletal muscle fibres. *Gen. Physiol. Biophys.* **9**, 251-266. **I.F.:** **0.578**, 2
 1. Poledna J. *Physiol. Res.* **40**, 183. 1991.
 2. Hays, E.T.: *Biochem. Pharmacol.* **47**, 1683. 1994.
 6. **Csernoch, L.**, G. Pizarro, I. Uribe, M. Rodríguez, and E. Rios (1991). Interfering with calcium release suppresses I₁, the "hump" component of intramembranous charge movement in skeletal muscle. *Journal of General Physiology*, **97**, 845-884. **I.F.:** **5.101**, 48.
 1. Garcia, J.: *J. Gen. Physiol.* **97**, 885. 1991.
 2. Rios E.: *Phys. Rev.* **71**, 849. 1991R
 3. Rios E.: *J. Musc. R.* **12**, 127. 1991.
 4. Garcia J.: *J. Physiol.* **440**, 403. 1991.
 5. Simon B.J.: *Biophys. J.* **61**, 1109. 1992.
 6. Klein M.G.: *J. Physiol.* **453**, 341. 1992.
 7. Rios E.: *Ann. Rev. Physiol.* **54**, 109. 1992.
 8. Gonzalez, A.: *J. Gen. Phys.* **102**, 373. 1993.
 9. Rios, E.: *J. Gen. Phys.* **102**, 449. 1993.
 10. Feldmeyer, D.: *Pflügers Arch.* **425**, 54. 1993.
 11. Jong, D.S.: *J. Gen. Phys.* **102**, 333. 1993.
 12. Garcia, J.: *J. Phys.* **463**, 709. 1993.
 13. Huang, C.L.-H.: *J. Physiol.* **481**, 357. 1994.
 14. Shirokova, N.: *J. Gen. Physiol.* **104**, 449. 1994.
 15. Ma, J.J.: *J. Gen. Physiol.* **102**, 1031. 1994.
 16. Hui, C.S.: *J. Physiol.* **474**, 275. 1994.
 17. Huang, C.L.-H.: *J. Physiol.* **474**, 161. 1994.
 18. Fitts, R.H.: *Phys. Rev.* **74**, 49. 1994.
 19. Schneider, M.F.: *Ann. Rev. Physiol.* **56**, 463. 1994.
 20. Papp, Z.: *J. Physiol.* **483**, 319. 1995.
 21. Jong, D.S.: *J. Gen. Physiol.* **106**, 659. 1995.
 22. Yano, M.: *J. Biol. Chem.* **270**, 19936. 1995.
 23. Zaidi, M.: *J. Clin. Invest.* **96**, 1582. 1995.
 24. Shirokova, N.: *J. Physiol.* **486**, 385. 1995.
 25. Melzer, W.: *Biochim. Biophys. Acta* **1241**, 59. 1995.
 26. Hui, C.S.: *J. Physiol.* **489**, 511. 1995.
 27. Huang, C.L.H.: *J. Gen. Physiol.* **107**, 515. 1996.
 28. Shirokova, N.: *J. Physiol.* **493**, 341. 1996.
 29. Pape, P.C.: *J. Gen. Physiol.* **107**, 79. 1996.
 30. Uribe, I.: *Jap. J. Physiol.* **46**, 59. 1996.
 31. Rios E.: *Ann. Rev. Biophys. Biomol. Struct.* **26**, 47. 1997.
 32. Huang, C.L.-H.: *J. Physiol.* **501**, 589. 1997.
 33. Huang, C.L.H.: *J. Physiol.* **506**, 699. 1998.
 34. Huang, C.L.H.: *J. Physiol.* **512**, 707. 1998.
 35. DeArmas R.: *J. Muscle Res. Cell Motil.* **19**, 961. 1998.
 36. Iino, M.: *Jpn. J. Physiol.* **49**, 325. 1999.
 37. Huang, C.L.H.: *J. Physiol.* **532**, 509. 2001.
 38. Melzer W.: *Acta Phys. Scand.* **171**, 367. 2001.
 39. Meme W.: *Acta Physiol Scand.* **173**, 391. 2001.
 40. Chawla S.: *J. Physiol.* **539**, 869. 2002.
 41. Pape, P.C.: *J. Physiol.* **539**, 253. 2002.
 42. Squecco R.: *J. Physiol.* **555**, 137. 2004.
 43. Bencini C.: *J. Muscle Res. Cell Motil.* **24**, 539. 2004.
 44. Chawla S: *Pflugers Archiv* **447**, 922. 2004. ([Scopus](#)) ([Google](#))
 45. Hui, C.S.: *Biophys. J.* **88**, 1030. 2005.
 7. Jacquemond, V., **L. Csernoch**, M. G. Klein, and M. F. Schneider (1991). Voltage-gated and calcium-gated calcium release during depolarization of skeletal muscle fibers. *Biophysical Journal*, **60**, 867-873. **I.F.:** **4.524**, 75
 1. Hollingworth S.: *Biophys. J.* **63**, 224. 1992.
 2. Jacquemond V.: *J. Gen. Physiol.* **100**, 137. 1992.
 3. Klein M.G.: *J. Physiol.* **453**, 341. 1992.

4. Lipp, P.: *Biophys. J.* 65, 2272. 1993.
5. Obrien, J.: *Biophys. J.* 65, 2418. 1993.
6. Berlin, J.R.: *Biophys. J.* 65, 1632. 1993.
7. Rios, E.: *J. Gen. Physiol.* 102, 449. 1993.
8. Feldmeyer, D.: *Pfugers Arch.* 425, 54. 1993.
9. Quyang, Y.: *Brain Res.* 620, 269. 1993.
10. Flucher, B.E.: *Cell Motil. and Cytoskel.* 25, 143. 1993.
11. Pape, P.C.: *J. Gen. Physiol.* 102, 295. 1993.
12. Jong, D.S.: *J. Gen. Physiol.* 102, 333. 1993.
13. Lamb, G.D.: *J. Musc. Res. Cell Motil.* 14, 554. 1993.
14. Percival, A.L.: *Biophys. J.* 67, 1834. 1994.
15. Clark, K.I.: *J. Physiol.* 481, 129. 1994.
16. Anderson, K.: *Am. J. Physiol* 266, C462. 1994.
17. Gyorko, S.: *Biophys J.* 66, 1879. 1994.
18. Schneider, M.F.: *Ann. Rev. Physiol.* 56, 463. 1994.
19. Ogawa, Y.: *Crit. Rev. Biochem. and Mol. Biol.* 29, 229. 1994.
20. Obrien, J.: *Biophys. J.* 68, 471. 1995.
21. Anderson, K.: *J. Gen. Physiol.* 105, 363. 1995.
22. Ivanenko, A.: *J. Biol. Chem.* 270, 4220. 1995.
23. Fan, H.R.: *Biochem.* 34, 14902. 1995.
24. Gallant, E.M.: *J. Cell. Physiol.* 165, 254. 1995.
25. Yano, M.: *J. Biol. Chem.* 270, 19936. 1995.
26. Pape, P.C.: *J. Gen. Physiol.* 106, 259. 1995.
27. Delbono, O.: *J. Membr. Biol.* 146, 91. 1995.
28. Garcia, J.: *J. Physiol.* 485, 437. 1995.
29. Melzer, W.: *Biochem. Biophys. Acta* 1241, 59. 1995.
30. Conti, A.: *Biochem. J.* 316, 19. 1996.
31. Ottini, L.: *Biochem. J.* 315, 207. 1996.
32. Tripathy, A.: *Biophys. J.* 70, 2600. 1996.
33. Shirokova, N.: *J. Physiol.* 493, 317. 1996.
34. Shirokova, N.: *J. Gen. Physiol.* 107, 1. 1996.
35. Maryon, E.B.: *J. Cell. Biol.* 134, 885. 1996.
36. O. Delbono.: *Journal of Membrane Biology* 151. 1996.
37. Allard, B.: *J. Physiol.* 494, 337. 1996. (Google)
38. Sutko, J.L.: *Phys. Rev.* 76, 1027. 1996.
39. Renganathan M.: *J. Memb. Biol.* 157, 247. 1997.
40. Hernandezcruz A.: *J. Gen. Physiol.* 109, 147. 1997.
41. Stern M.D.: *J. Gen. Physiol.* 110, 415. 1997.
42. Shirokova, N.: *J. Physiol.* 502, 3. 1997.
43. Huang, C.L-H.: *J. Physiol.* 501, 589. 1997.
44. Sun, Y.B.: *Am. J. Physiol.* 44, C375. 1998.
45. Pape, P.C.: *J. Gen. Phys.* 112, 263. 1998.
46. Pape, P.C.: *J. Gen. Phys.* 112, 161. 1998.
47. Szentesi, P.: *J. Musc. Res. Cell Motil.* 19, 675. 1998.
48. Struk, A.: *Biophys. J.* 75, 2404. 1998.
49. Leong P.: *Biochem. Cell Biol.* 76, 681. 1998.
50. Lamb, G.D.: Ed.: Sitsapasan, R., Williams, A.J., Imperial College Press 1998.
51. Lamb, G.D.: *Biochemistry of Exercise* Ed.: Hargreaves, M., Thompson, M., Human Kinetics 1999.
52. Niggli, E.: *Ann. Rev. Physiol.* 61, 311. 1999.
53. Struk, A.: *J. Physiol.* 515, 221. 1999.
54. Cheng, H.: *Biophys. J.* 76, 606. 1999.
55. Mason, C.A.: *J. Physiol.* 519, 851. 1999.
56. Hui, C.S.: *Biophys. J.* 77, 2123. 1999.
57. Gonzalez, A.: *J.Gen.Phys.* 115, 139. 2000.
58. Munch, G.: *J. Mol. Med.-JMM* 78, 352. 2000.
59. Lewartowski, B.: *J.Physiol.Pharmacol.* 51, 371. 2000.
60. Mackiewicz, U.: *J.Physiol.Pharmacol.* 51, 777. 2000.
61. Huang C.L-H.: *J. Physiol.* 532, 509. 2001.
62. Chawla S.: *J. Physiol.* 536, 351. 2001.
63. Caputo, C.: *J. Muscle Res. Cell Motil.* 22, 485. 2001.
64. Pape, P.C.: *J. Physiol.* 542, 867. 2002.
65. Rengifo: *Biophysical Journal* 83, 2511. 2002. (Scopus)
66. Chandler, W.K.: *J. Gen. Physiol.* 121, 311. 2003.
67. Baylor, S.M.: *J Physiol.* 551, 125. 2003.
68. Caputo,C.: *J. Muscle Res. Cell Motil.* 25, 315. 2004.
69. Zhou, J.S.: *J. Gen. Phys.* 124, 409. 2004.
70. Pizarro, G.: *J. Gen. Phys.* 124, 239. 2004.
71. Lopez, J.R.: *Am. J Physiol.* 288, C606. 2005.
72. Baylor, S.M.: *Cell Calcium* 37, 513. 2005.
73. Piriz N.: *J. Muscle Res. Cell Motil.* 27, 221. 2006.
74. Zissimopoulos: *New Comprehensive Biochemistry* 41, 287. 2007. (Scopus)
75. Legrand C.: *J. Physiol.* 586, 441. 2008.
76. Rios E.: *J. Gen .Physiol.* 131, 335. 2008.

8. Pizarro, G., **L. Csernoch**, I. Uribe, M. Rodriguez, and E. Rios (1991). The relationship between Q and Ca release from the sarcoplasmic reticulum in skeletal muscle. *Journal of General Physiology*, 97, 913-947. **I.F.:** **5.101**, 69
 1. Garcia J. J. *Physiol. London* 440, 403. 1991.
 2. Gallant E.M.: *Amer. J. Physiol.* 262, C422. 1992.
 3. Simon B.J.: *Biophys. J.* 61, 1109. 1992.
 4. Huang C.L.H.: *J. Gen. Physiol.*, 99, 531. 1992.
 5. Lamb G.D.: *J. Muscle Res. Cell Mot.* 13, 394. 1992.
 6. Rios E.: *Ann. Rev. Physiol.* 54, 109. 1992.
 7. Dulhunty A.F.: *Prog. Biophys. Mol. Biol.* 57, 181. 1992.
 8. Gonzalez, A.: *J. Gen. Physiol.* 102, 373. 1993.
 9. Rios, E.: *J. Gen. Physiol.* 102, 449. 1993.
 10. Feldmeyer, D.: *Pflügers Arch.* 425, 54. 1993.
 11. Jong, D.S.: *J. Gen. Physiol.* 102, 333. 1993.
 12. Caputo, C.: *J.Gen. Physiol.* 101, 411. 1993.
 13. Gonzalez, A.: *J. Gen. Physiol.* 101, 425. 1993.
 14. Xu, L.: *J. Gen. Physiol.* 101, 207. 1993.
 15. Gilly, W.F.: *J. Memb. Biol.* 134, 155. 1993.
 16. Huang, C.L.-H.: *J. Physiol.* 481, 357. 1994.
 17. Shirokova, N.: *J. Gen. Physiol.* 104, 449. 1994.
 18. Hui, C.S.: *J. Physiol.* 474, 275. 1994.
 19. Huang, C.L.-H.: *J. Physiol.* 474, 161. 1994.
 20. Schneider, M.F.: *Ann. Rev. Physiol.* 56, 463. 1994.
 21. Gallant, E.M.: *J. Cell. Physiol.* 165, 254. 1995.
 22. Jong, D.S.: *J. Gen. Physiol.* 106, 659. 1995.
 23. Yano, M.: *J. Biol. Chem.* 270, 19936. 1995.
 24. Pape, P.C.: *J. Gen. Physiol.* 106, 259. 1995.
 25. Melzer, W.: *Biochim. Biophys. Acta* 1241, 59. 1995.
 26. Huang, C.L.H.: *J. Gen. Physiol.* 107, 515. 1996.
 27. Shirokova, N.: *J. Physiol.* 493, 341. 1996.
 28. Adebajo, O.A.: *Am. J. Physiol.* 39, F469. 1996.
 29. Pape, P.C.: *J. Gen. Physiol.* 107, 79. 1996.
 30. Klein, M.G.: *Nature* 379, 455. 1996.
 31. Ma, J.J.: *J. Gen. Physiol.* 108, 221. 1996.
 32. Uribe, I.: *Jap. J. Physiol* 46, 59. 1996.
 33. Flucher, B.E. *Proc. Natl. Acad. Sci. USA.* 93, 8101. 1996.
 34. Jong D.S.: *J. Physiol.* 499 787. 1997
 35. Rios E.: *Ann. Rev. Biophys. Biomol. Struct.* 26, 47. 1997.
 36. Stern, M.D.: *J. Gen. Physiol.* 110, 415. 1997.
 37. Stroffekova, K.: *Gen. Physiol. Biophys.* 16, 59. 1997.
 38. Stroffekova, K.: *Gen. Physiol. Biophys.* 16, 79. 1997.
 39. Huang, C.L.-H.: *J. Physiol.* 501, 589. 1997.
 40. Hui, C.S.: *J. Physiol.* 509, 869. 1998.
 41. Bruton, J.D.: *Acta Physiol. Scand.* 162, 285. 1998.
 42. DeArmas, R.: *J. Muscle Res. Cell Motil.* 19, 961. 1998.
 43. Caputo, C.: *J. Muscle Res. Cell Motil.* 20, 555. 1999.
 44. Rios, E.: *J.Gen. Physiol.* 114, 31. 1999.
 45. Fill, M.: *J.Gen. Physiol.* 114, 159. 1999.
 46. Struk, A.: *J. Physiol.* 515, 221. 1999.
 47. Zoghbi M.E.: *Bophys. J.* 78, 164. 2000.
 48. O'Connell K.M.S.: *J. Physiol.* 529, 647. 2000.
 49. Lange P.S.: *Pflügers Arch.* 442, 435. 2001.
 50. Francini F.: *J Physiol.* 537, 45. 2001.
 51. Leroy, J.: *Brit. J. Pharm.* 135, 721. 2002.
 52. Pape, C.: *J. Physiol.* 539, 253. 2002.
 53. Dirksen, R.T.: *Front. Biosci.* 7, D659. 2002.
 54. Chawla, S.: *J. Physiol.* 539, 869. 2002.
 55. Rios, E.: *Front. Biosci.* 7, D1195. 2002.
 56. Squecco R.: *J. Physiol.* 555, 137. 2004.
 57. Serysheva I.I.: *Biochemistry-Moscow* 69, 1226. 2004.
 58. Hui, C.S.: *Biophys. J.* 88, 1030. 2005.
 59. Piriz N.: *J. Muscle Res. Cell Motil.* 27, 221. 2006.
 60. Serysheva I.I.: *Methods In Cell Biology* 79, 407-435. 2007.
 61. Piriz N.: *J. Muscle Res. Cell Motil.* 28, 315. 2007.
9. Szűcs, G., **L. Csernoch**, J. Magyar, and L. Kovács (1991). Contraction threshold and the "hump" component of charge movement in frog skeletal muscle. *Journal of General Physiology*, 97, 897-911. **I.F.:** **5.101**, 29
 1. Garcia, J.: *J. Gen. Physiol.* 97, 885. 1991.
 2. Rios, E.: *Physiol. Rev.* 71, 849. 1991.
 3. Rios, E.: *J. Musc. Res.* 12, 127. 1991.
 4. Simon B.J.: *Biophys. J.* 61, 1109. 1992.
 5. Rios E.: *Ann. Rev. Physiol.* 54, 109. 1992.
 6. Dulhunty A.F.: *Prog. Biophys. Mol. Biol.* 57, 181. 1992.

7. Gonzalez, A.: J. Gen. Phys. 102, 373. 1993.
 8. Rios, E.: J. Gen. Phys. 102, 449. 1993.
 9. Jong, D.S.: J. Gen. Phys. 102, 333. 1993.
 10. Xu, L.: J. Gen. Phys. 101, 207. 1993.
 11. Allard, B.: J. Muscle Res. Cell Motil. 15, 563. 1994.
 12. Huang, C.L.-H.: J. Physiol. 481, 357. 1994.
 13. Shirokova, N.: J. Gen. Phys. 104, 449. 1994.
 14. Huang, C.L.-H.: J. Physiol. 474, 161. 1994.
 15. Schneider, M.F.: Ann. Rev. Physiol. 56, 463. 1994.
 16. Jong, D.S.: J. Gen. Physiol. 106, 659. 1995.
 17. Oba, T.: Eur. J. Pharmacol. 292, 301. 1995.
 18. Yano, M.: J. Biol. Chem. 270, 19936. 1995.
 19. Melzer, W.: Biochim. Biophys. Acta 1241, 59. 1995.
 20. Huang, C.L.H.: J. Gen. Physiol. 107, 515. 1996.
 21. Shirokova: Journal of Physiology 493, 341. 1996. (Scopus)
 22. Pape, P.C.: J. Gen. Physiol. 107, 79. 1996.
 23. Rios E.: Ann. Rev. Biophys. Biomol. Struct. 26, 47. 1997.
 24. Huang C.L.-H.: J. Physiol. 501, 589. 1997.
 25. Huang C.L.-H.: J. Physiol. 512, 707. 1998.
 26. Hermann-Frank, A.: J. Musc. Res. Cell Motil. 20, 223. 1999.
 27. Pape, P.C.: J. Physiol. 539, 235. 2002.
10. Szűcs, G., Z. Papp, **L. Csernoch**, and L. Kovács (1991). Kinetic properties of intramembrane charge movement under depolarized conditions in frog skeletal muscle fibers. *Journal of General Physiology*, 98, 365-378. **I.F.:** **5.101**, 9
 1. Rios, E.: J. Muscle Res. 12, 127. 1991.
 2. Rios E.: Physiol. Rev. 71, 849. 1991R
 3. Gonzalez, A.: J. Gen. Phys. 102, 373. 1993.
 4. Huang, C.L.H.: J. Phys. 468, 107. 1993.
 5. Monographs of The Physiological Society Vol. 44, Oxford University Press Inc., New York, 1993.
 6. Melzer, W.: Biocim. Biophys. Acta 1241, 59. 1995.
 7. Stroffekova: General Physiology and Biophysics 16, 59. 1997. (Scopus)
 11. Pizarro, G., **L. Csernoch**, I. Uribe, and E. Rios (1992). Differential effects of tetracaine on two kinetic components of calcium release in frog skeletal muscle fibres. *Journal of Physiology*, 457, 525-538. **I.F.:** **4.727**, 24
 1. Rios, E.: J. Gen. Physiol. 102, 449. 1993.
 2. Shirokova, N.: J. Gen. Physiol. 104, 449. 1994.
 3. Hogan, Q.: Anesthesiology 80, 942. 1994.
 4. Obrien, J.: Biophys. J. 68, 471. 1995.
 5. Yano: J. Biological Chemistry 270, Number 34, 1995.
 6. Hidalgo: Cell Calcium. 140-54. 1995. (Google)
 7. Hernandezcruz, A.: J. Gen. Physiol. 109, 147. 1997.
 8. Shirokova, N.: J. Physiol. 502, 3. 1997.
 9. Huang, C.L.H.: J. Physiol. 501, 589. 1997.
 10. Huang, C.L.H.: J. Physiol. 506, 699. 1998.
 11. Shirokova, N.: J. Physiol. 512, 377. 1998.
 12. DeArmas, R.: J. Musc. Res. Cell Motil. 19, 961. 1998.
 13. Mason, C.A.: J. Physiol. 519, 851. 1999.
 14. Hirayama, H.: Comput Mech. 24, 71. 1999.
 15. Venosa, R.A.: Pflügers Arch. 437, 417. 1999.
 16. Huang C.L.-H.: J. Physiol. 532, 509. 2001.
 17. Caputo, C.: J. Muscle Res. Cell Motil. 22, 485. 2001.
 18. Niggli, E.: Front. Biosci. 7, D1288. 2002.
 19. McCarron, J.G.: J. Cell Sci. 115, 2207. 2002.
 20. Brum, G.: Biophys. J. 85, 245. 2003.
 21. Piriz N.: J. Muscle Res. Cell Motil. 27, 221. 2006.
 22. Rios E.: J. Gen. Physiol. 131, 335. 2008.
 12. **Csernoch, L.**, V. Jacquemond, and M. F. Schneider (1993). Microinjection of strong calcium buffers suppresses the peak of calcium release during depolarization in frog skeletal muscle fibers. *Journal of General Physiology*, 101, 297-333. **I.F.:** **5.101**. 41
 1. Pape, P.C.: J. Gen. Phys. 102, 295. 1993.
 2. Tse, A.: J. Physiol. 477, 511. 1994.
 3. Obrien, J.: Biophys. J. 68, 471. 1995.
 4. Anderson, K.: J. Gen. Physiol. 105, 363. 1995.
 5. Yano, M.: J. Biol. Chem. 270, 19936. 1995.
 6. Garcia, J.: J. Physiol. 485, 437. 1995.
 7. Melzer, W.: Biochim. Biophys. Acta 1241, 59. 1995.
 8. Pape, P.C.: J. Gen. Physiol. 106, 259. 1995.
 9. Delbono, O.: J. Membr. Biol. 151, 123. 1996.
 10. Shirokova, N.: J. Physiol. 493, 317. 1996.
 11. Sutko, J.L.: Phys. Rev. 76, 1027. 1996.
 12. Stern, M.D.: J. Gen. Physiol. 110, 415. 1997.
 13. Huang C.L.-H.: J. Physiol. 501, 589. 1997.
 14. Pape, P.C.: J. Gen. Phys. 112, 263. 1998.
 15. Szentesi, P.: J. Muscle Res. Cell Motil. 19, 675. 1998.

16. Struk, A.: *Cell Calcium* **23**, 23. 1998.
 17. Struk, A.: *Biophys. J.* **75**, 2402. 1998.
 18. DeArmas, R.: *J. Muscle Res. Cell Motil.* **19**, 961. 1998.
 19. Niggli, E.: *Annu. Rev Physiol.* **61** 311. 1999.
 20. Struk, A. *J. Physiol.* **515**, 221. 1999.
 21. Murayama T.: *Biophys. J.* **78**, 1810. 2000.
 22. Huang C.L-H.: *J. Physiol.* **532**, 509. 2001.
 23. Melzer W.: *Acta Phys. Scand.* **171**, 367. 2001.
 24. Ward CW.: *Biophys J.* **81**, 3216. 2001.
 25. Caputo, C.: *J. Muscle Res. Cell Motil.* **22**, 485. 2001.
 26. Ogawa, Y.: *Front. Biosci.* **7**, D1184. 2002.
 27. Murayama, T.: *Trends Cardiovasc. Med.* **12**, 305. 2002.
 28. Schuhmeier, R.P.: *Biophys. J.* **84**, 1065. 2003.
 29. Brum, G.: *Biophys. J.* **85**, 245. 2003.
 30. Schuhmeier R.P.: *J. Gen. Phys.* **123**, 33. 2004.
 31. Zhou, J.S.: *J. Gen. Phys.* **124**, 409. 2004.
 32. Pizarro, G.: *J. Gen. Phys.* **124**, 239. 2004
 33. Ursu, D.: *J. Ohys.* **562**, 347. 2005.
 34. Schuhmeier, R.P.: *Biophys. J.* **88**, 1765. 2005.
 35. Baylor, S.M.: *Cell Calcium* **37**, 513. 2005.
 36. Niggli E.: *Cell Calcium.* **42**, 379. 2007.
 37. Jimenez-Moreno R.: *Biophys.J.* **94**, 3178. 2008.
13. Sárközi S., P. Szentesi, I. Jona, **L. Csernoch** (1996). Effects of cardiac glycosides on excitation-contraction coupling in frog skeletal muscle fibres. *Journal of Physiology*, **495**, 611-626. **I.F.:** **4.727**, 19
 1. Wasserstrom, J.A.: *Acta Physiol. Scand.* **162**, 247. 1998.
 2. Hatip-Al-Khatib *Med. Sci. Res.* **27**, 759. 1999.
 3. Huang C.L-H.: *J. Physiol.* **532**, 509. 2001.
 4. Pivovarov: *Zhurnal Vysshei Nervnoi Deyatelnosti Imeni I.P. Pavlova* **51**, 731. 2001.
 5. Lannergren *J. Cell Biol. Int.* **26**, 911. 2002.
 6. Rocchetti M, *J. Pharmacol. Exp. Ther.* **305**, 765. 2003.
 7. Kochegarov, A.A.: *Exp. Opin. Ther. Patents* **13**, 815. 2003.
 8. A. S. Pivovarov: *Neuroscience and Behavioral Physiology.* **33**, 2003. (Google)
 9. Rocchetti, M.: *J. Pharmacol. Exp. Ther.* **313**, 207. 2005.
 10. Altamirano J.: *J. Physiol.* **575**, 845. 2006.
 11. Pivovarov AS.: *Regulatory Peptides* **138**, 103. 2007.
 14. Sárközi S., P. Szentesi, J. Cseri, L. Kovács, **L. Csernoch** (1996). Concentration dependent effects of tetracaine on excitation-contraction coupling in frog skeletal muscle fibres. *Journal of Muscle Research and Cell Motility*, **17**, 647-656. **I.F.:** **2.905**, 8
 1. Shirokova, N.: *J. Physiol.* **502**, 3. 1997.
 2. Huang, C. L-H.: *J. Physiol.* **512**, 707. 1998.
 3. DeArmas, R.: *J. Muscle Res. Cell Motil.* **19**, 961. 1998.
 4. Nasledov, G.A.: *Biofizika* **47**, 716. 2002.
 5. Brum, G.: *Biophys. J.* **85**, 245. 2003.
 6. Piriz N.: *J. Muscle Res. Cell Motil.* **27**, 221. 2006.
 15. Szentesi, P., Z. Papp, G. Sz cs, L. Kovács, L. Csernoch (1997) Kinetics of contractile activation in voltage clamped frog skeletal muscle fibers. *Biophysical Journal* **73**, 1999-2011, **I.F.:** **4.524**, 2
 1. Quinonez, M.: *Jpn. Physiol.* **50**, 457. 2000.
 16. Szentesi, P., V. Jacquemond, L. Kovács, **L. Csernoch** (1997) Intramembrane charge movement and sarcoplasmic calcium release in enzymatically isolated mammalian skeletal muscle fibres. *Journal of Physiology*, **505**, 371-384. **I.F.:** **4.727**, 25
 1. Struk, A.: *Biophys. J.* **75**, 2404. 1998.
 2. Camacho, J.: *J. Physiol.* **520**, 177. 1999.
 3. Iino, M.: *Jpn. J.Physiol.* **49**, 325. 1999.
 4. Wang, Z.M.: *BIOPHYS. J.* **77**, 2709. 1999.
 5. Francini F.: *J Physiol* **537**, 45. 2001.
 6. Ahern CA: *Biophys J.* **81**, 3294. 2001.
 7. Collet, C.: *Biophys. J.* **82**, 1509. 2002.
 8. García: *J Physiol.* **545**, 407. 2002.
 9. Collet, C.: *Biophys. J.* **84**, 251. 2003.
 10. Woods, C.E.: *J. Physiol.* **557**, 59. 2004.
 11. Woods CE.: *J. Physiol.* **568**, 867. 2005.
 12. DiFranco M.: *J. Membrane Biology.* **208**, 141. 2005.
 13. Jimenez-Moreno R.: *Biophys. J.* **94**, 3178. 2008.
 17. Bíró, T., I. Szabó, L. Kovács, J. Hunyadi, **L. Csernoch** (1998) Distinct subpopulations in HaCaT cells as revealed by the characteristics of intracellular calcium release induced by phosphoinositide-coupled agonists. *Arch. Dermatol Res.* **290**, 270-276. **I.F.:** **1.421**, 16
 1. Goldman, R.: *BBA* **1438**, 349. 1999.
 2. Koegel, H.: *FASEB J.* **15**, 145. 2001.
 3. Koegel, H.: *J. Biol. Chem.* **278**, 3323. 2003.
 4. Lazar, J.: *Life Sci.* **75**, 153. 2004.
 5. Fischer, M.: *Exp. Dermatol.* **13**, 512. 2004.

6. Zholos, A.: J. Gen Physiol. 125, 197. 2005.
 7. Muller EJ.: J. Investigative Dermatol. 126, 721. 2006.
 8. Beck B.: J. Investigative Dermatol. 126, 1982. 2006.
 9. Ikeyama K.: Journal Of Investigative Dermatology 127, 1713. 2007.
18. **Csernoch, L.**, J.C. Bernengo, P. Szentesi, V. Jacquemond (1998) Measurement of intracellular Mg²⁺ concentration in mouse skeletal muscle fibers with the fluorescence indicator Mag-Indo-1. *Biophysical Journal* 75, 957-967. **I.F.:** **4.524**, 17
 1. Konishi, M.: Jpn. J. Physiol. 48, 421. 1998.
 2. Conklin, M.W.: Biophys. J. 77, 1394. 1999.
 3. Collet, C. J. Physiol. 520, 417. 1999.
 4. Schafer, B.W.: J.Biol.Chem. 275, 30623. 2000.
 5. Otten, P.A.: Bioconjugate Chem. 12, 76. 2001.
 6. Bernengo, J.C.: Biophys.J. 89, 35. 2001.
 7. Dahlstedt A.J.: J.Physiol. 533, 639. 2001.
 8. Gunzel, D.: Biophys. J 80, 1298. 2001.
 9. Katerinopoulos, H.E.: Curr. Med. Chem. 9, 275. 2002.
 10. Collet, C.: Biophys. J. 82, 1509. 2002.
 11. McGuigan: J. Clin. Basic. Cardio. 5, 5. 2002. ([Google](#)) ([Scopus](#))
 12. Pouvreau, S.: J. Physiol. 560, 779. 2004.
 13. Yan, D.H.: J. Physiol. 563, 725. 2005.
 14. Pouvreau, S.: J. Physiol. 567, 815. 2005.
 15. Allard B.: J. Physiol 575, 69. 2006.
 16. Gunther T.: Magnesium Research 19, 225. 2006.
 17. A. Menze: Am J Physiol Regul Integr Comp Physiol 292. 2007.
 18. Legrand C.: J. Physiol. 586, 441. 2008.
 19. **Csernoch, L.**, P. Szentesi, S. Sárközi, C. Szegedi, I. Jona, L. Kovács (1999) Effects of tetracaine on sarcoplasmic calcium release in mammalian skeletal muscle fibres. *Journal of Physiology* 515, 843-857. **I.F.:** **4.727**, 23
 1. Li, N.J.: Microvasc. Res. 60, 149. 2000.
 2. Tien HT.: J Membrane Sci 189, 83. 2001.
 3. Li NJ.: Gen. Pharmacol.-Vasc. S. 35, 37. 2000.
 4. Rose U.: J Exp Biol. 204, 3531. 2001.
 5. Weiss T.: J Muscle Res Cell M. 22, 329. 2001.
 6. T. Tien: J. Membrane Sc. 189, 83, 2001.
 7. Ursu, D.: J. Gen. Phys. 124, 605. 2004.
 8. Ursu, D.: J. Phys. 562, 347. 2005.
 9. Schuhmeier, R.P.: Biophys. J. 88, 1765. 2005.
 10. Johnston, L.: J. Physiol. 565, 449. 2005.
 11. McHale N.: J. Physiol. 570, 23. 2006.
 12. Hollingworth S.: J. Gen. Phys. 127, 291. 2006.
 13. Piriz N.: J. Muscle Res. Cell Motil. 27, 221. 2006.
 14. Zayas R.: Cell Calcium 41, 343. 2007.
 20. **Csernoch, L.**, P. Szentesi, L. Kovács (1999) Differential effects of caffeine and perchlorate on excitation-contraction coupling in mammalian skeletal muscle fibres. *Journal of Physiology* 520, 217-230. **I.F.:** **4.727**, 11
 1. Leroy, J.: Brit. J. Pharmacol. 135, 721. 2002.
 2. Reading, S.A.: Can. J. Physiol. Pharmacol. 81, 986. 2003.
 3. Ursu, D.: J. Gen. Phys. 124, 605. 2004.
 4. Ursu, D.: J. Phys. 562, 347. 2005.
 5. Schuhmeier, R.P.: Biophys. J. 88, 1765. 2005.
 6. Gouadon E.: J. Phys. 572, 269. 2006.
 7. Piriz N.: J. Muscle Res. Cell Motil. 27, 221. 2006.
 21. **Csernoch L.** (2000) Regulation of the ryanodine receptor calcium release channel of the sarcoplasmic reticulum in skeletal muscle. *Acta Physiologica Hungarica* 86, 77-97.
 1. Stephenson, G.M.: Clin. Exp. Pharmacol. 28, 692. 2001.
 22. **Csernoch, L.**, J. Hunyadi, L. Kovács (2000) Calcium release activated calcium entry in a human skin derived cell line (HaCaT). *Experimental Dermatology*, 9, 200-205. **I.F.:** **2.434**, 11
 1. Weber, K.: Biochem. Bioph. Res. Co. 289, 1287. 2001.
 2. Mauro, T.: J. Invest. Dermatol. 121, IX. 2003.
 3. Behne: J. Investigative Dermatology 121, 688. 2003.
 4. Fischer, M. Exp. Dermatol. 13, 512. 2004.
 5. Burnstock, G.: Int. Rev. Cytol. 240, 31. 2004.
 6. Tu, C.L.: J. Invest Dermatol. 124, 187. 2005.
 7. Foggia L.: J. Cell. Science. 119, 671. 2006.
 8. Beck B.: Invest Dermatol. 126, 1982. 2006.
 23. Sárközi S., C. Szegedi, P. Szentesi, L. Csernoch, L. Kovács, I. Jona (2000) Regulation of rat sarcoplasmic reticulum calcium release channel by calcium. *Journal of Muscle Research and Cell Motility*, 21, 131-138. **I.F.:** **2.117**, 4
 1. Koh XY.: Biophys. J. 90, 1999. 2006.
 2. Chalmers S.: Cell Calcium. 42, 447. 2007.

24. Nánási PP., S. Sárközi, G. Szigeti, I. Jona, C. Szegedi, Á. Szabó, T. Bányász, J. Magyar, P. Szigligeti, Á. Körtvély, **L. Csernoch**, L. Kovács, A. Jednakovits (2000) Biphasic effect of bimoclomol on calcium handling in mammalian ventricular myocardium. *British Journal of Pharmacology*, 129, 1405-1412. **I.F.:** **3.689**, 5
1. Kortvely, A.: Life Sci. 67, 1783. 2000.
 2. Jednakovits, A.: Gen. Pharmacol.-Vasc. S. 34, 363. 2000.
 3. Wu, B.S.: J. Neurobiol. 49, 188. 2001.
 4. Nanasi, P.P.: Cardiovasc. Drug Rev. 19, 133. 2001.
 5. Barclay, J.W.: J. Neurobiol. 56, 360. 2003.
25. Szőke É., Z. Balla, **L. Csernoch**, G. Czéh, J. Szolcsányi (2000) Interacting effects of capsaicin and anandamine on intracellular calcium in sensory neurones. *Neuroreport*, 11, 1949-1952. **I.F.:** **2.696**, 22
1. Sprague, J.: Eur. J. Pharmacol. 423, 121. 2001.
 2. Tognetto, M.: J. Neurosci. 21, 1104. 2001.
 3. Szolcsanyi J.: J Physiol-Paris 95, 181. Sp. Iss. 2001.
 4. Snyman T.: Forensic Sci. Int. 124, 43. 2001.
 5. Lever II.: Brit. J Pharmacol 135, 21. 2002.
 6. Lin, Y.S.: J. Physiol. 539, 947. 2002.
 7. Ralevic, V.: Life Sci. 71, 2577. 2002.
 8. Szoke, E.: Neurosci. 115, 805. 2002.
 9. Nemeth, J.: Neurosci. Lett. 336, 89. 2003.
 10. Ralevic, V.: 2003. European J. Pharmacol. 472, 1. 2003.
 11. Helyes Z.: Life Sciences 73, 2345. 2003.
 12. Bash, R.: Neurosignals 12, 39. 2003.
 13. Szolcsanyi, J.: Neurosci. Lett. 361, 155. 2004.
 14. Cernak, I.: J. Cerebr. Blood Flow Metab. 24, 564. 2004.
 15. Pertwee: Current Neuropharmacology 2, 9. 2004. (Scopus)
 16. Kim, S.R.: J. Neurosci. 25, 662. 2005.
 17. Minowa, S.: Brain. Res. 1039, 75. 2005.
 18. Jakab, B.: Eur. J. Pharmacol. 517, 35. 2005.
 19. Varga A.: Neurosci. 385, 137. 2005.
 20. Sandor Z.: Cell. Mol. Biol. Lett. 10, 499. 2005.
 21. Varga A.: Neurosci. 140, 645. 2006.
 22. Fischer MJM.: Cephalalgia 27, 422. 2007.
 23. Kim SR.: Mol.Neurobiology 35, 245. 2007.
26. Szentesi, P., L. Kovács and **L. Csernoch** (2000) Deterministic inactivation of calcium release channels in mammalian skeletal muscle. *Journal of Physiology*, 528, 447-456. **I.F.:** **4.455**, 8
1. Lamb, G.D.: Am. J. Physiol. 281, C207. 2001.
 2. Lamb, G.D.: Front. Biosci. 7, D834. 2002.
 3. Posterino, G.S.: J. Physiol. 551, 219. 2003.
 4. Schuchmeier R.P.: J. Gen. Physiol. 123, 33. 2004.
 5. Pouvreau, S.: J. Physiol. 560, 779. 2004.
 6. Dias JM.: Biochemistry 45, 9408. 2006.
 7. Jimenez-Moreno R.: Biophys.J. 94, 3178. 2008.
27. Bruton, J., P. Szentesi, J. Lännergren, H. Westerblad, L. Kovács, **L. Csernoch** (2000) Frog skeletal muscle fibres recovering from fatigue have reduced charge movement. *Journal of Muscle Research and Cell Motility*, 21, 621-628. **I.F.:** **2.117**, 7
1. Lännergren, J.: J. Muscle Res. Cell Motil. 22, 265. 2001.
 2. Lamb, G.D.: J. Muscle Res. Cell Motil. 23, 81. 2002.
 3. Westerblad, H.: Curr. Opin. Rheumatol. 14, 648. 2002.
 4. Lännergren, J.: Cell. Biol. Int. 26, 911. 2002.
 5. Williams J.H. Acta Phys. Scand. 180, 265. 2004.
 6. Usher-Smith JA.: J. Muscle Res. Cell Motil. 28, 19. 2007.
 7. Allen DG.: Physiol.Rev. 88, 287. 2008.
28. Jona, I., C. Szegedi, S. Sárközi, P. Szentesi, **L. Csernoch**, L. Kovács, (2001) Altered inhibition of rat skeletal ryanodine receptor-calcium release channel by magnesium in the presence of ATP. *Pflügers Archive*, 441, 729-739. **I.F.:** **2.203**, 11
1. Mooren, F.C.: Exerc. Immunol. Rev. 7, 32. 2001.
 2. Laver, D.R.: J. Physiol. 537, 763. 2001.
 3. Lamb, G.D.: J. Muscle Res. Cell Motil. 23, 81. 2002.
 4. Kochergarov, A.A.: Expert Opin. Ther. Pat. 13, 815. 2003.
 5. Bull, P.: Am. J. Phys.-Cell Ph. 285, C119. 2003.
 6. Esteve, E.: J. Biol. Chem. 278, 37822. 2003.
 7. Singh, P.: J. Biol. Chem. 279, 35176. 2004.
 8. Komatsu, H.: J. Am. Chem Soc. 126, 16353. 2004.
 9. Laver DR.: Eur. Biophys. J. Biophys. Lett. 34, 359. 2005.
 10. Dias JM.: Biochemistry 45, 9408. 2006.
 11. Laver DR.: Clin. Exp. Pharmacol. Physiol. 33, 1107. 2006.
29. Szentesi P., C. Collet, S. Sárközi, C. Szegedi, I. Jona, V. Jacquemond, L. Kovacs, **L. Csernoch**. (2001) Effects of dantrolene on steps of excitation-contraction coupling in mammalian skeletal muscle fibres. *Journal of General Physiology*, 118, 355-375. **I.F.:** **6.082**, 21
1. Thayer, S.A.: Front. Biosci. 7, D1255. 2002.
 2. Paul-Pletzer, K.: J. Biol. Chem. 277, 34918. 2002.
 3. Avila, G.: J. Gen. Physiol. 121, 277. 2003.

4. Schuhmeier, R.P.: *Biophys. J.* **84**, 1065. 2003.
 5. Krause T.: *Anesthesia* **59**, 364. 2004.
 6. Germinario E.: *J. Appl. Physiol.* **96**, 645. 2004.
 7. Magyar, J.: *Eur. J. Pharmacol* **487**, 29. 2004.
 8. Ursu, D.: *J. Phys.* **562**, 347. 2005.
 9. Kobayashi, S.: *J. Biol. Chem.* **280**, 6580. 2005.
 10. Rocchetti, M.: *J. Pharmacol. Exp. Ther.* **313**, 207. 2005.
 11. Zhang, Y.F.: *J. Pharmacol. Exp. Ther.* **314**, 94. 2005.
 12. Gouadon E.: *J. Phys.* **572**, 269. 2006.
 13. McKinney LC.: *Anest.* **104**, 1191. 2006.
 14. Zhao XL.: *J. Biological Chemistry* **281**, 33477. 2006.
 15. Katina IE.: *Biofizika* **51**, 898. 2006.
 16. Zayas R.: *Cell Calcium* **41**, 343. 2007.
 17. West DJ.: *Cur.Pharmac.R.* **13**, 2428. 2007.
 18. Cherednichenko G.: *Mol. Pharmac.* **73**, 1203. 2008.
 19. Jimenez-Moreno R.: *Biophys.J.* **94**, 3178. 2008.
 20. Diaz-Sylvester PL.: *Am.J.Phys.* **294**, C1103. 2008.
30. Collet, C., C. Stuber, **L. Csernoch**, C. Ojeda, V. Jacquemond (2002) Effects of extracellular ATP on freshly isolated mouse skeletal muscle cells during prenatal and post-natal development. *Pflügers Archive* **443**, 771-778. **I.F.:** **2.203**, 14
1. Soto, F.: *FEBS LETT.* **533**, 54. 2003.
 2. Holzer, .A.M.: *J. Cut. Med. Surg.* **8**, 90. 2004
 3. Burnstock, G.: *Int. Rev. Cytol.* **240**, 31. 2004.
 4. Araya, R.: *Brain Res.* **47**, 174. 2004.
 5. Moores, T.S.: *Brain Res.* **1034**, 40. 2005.
 6. Sandona, D.: *FASEB J.* **19**, 1184. 2005.
 7. Todd KJ.: *Pflügers Arch.* **452**, 608. 2006.
 8. Gever JR: *Pflügers Arch.* **452**, 513. 2006.
 9. Yeung D.: *Faseb Journal* **20**, 610. 2006.
 10. Burnstock: *Physiological Reviews* **87**, 659. 2007.
31. Cseri, J., H. Szappanos, G.P. Szigeti, Z. Csernátóny, L. Kovács, **L. Csernoch** (2002) A purinergic signal transduction pathway in mammalian skeletal muscle cells in culture. *Pflügers Archive* **443**, 731-738. **I.F.:** **2.203**, 15
1. Soto, F.: *FEBS LETT.* **533**, 54. 2003.
 2. Bo, X.N.: *Mol. Pharmacol.* **63**, 1407. 2003.
 3. Burnstock, G.: *Int. Rev. Cytol.* **240**, 31. 2004.
 4. Araya, R.: *Brain Res.* **47**, 174. 2004.
 5. Kerkweg U.: *Shock* **24**, 440. 2005.
 6. Banachewicz: *Purinergic Signalling* **1**, 1573. 2005. ([Google](#)) ([Scopus](#))
 7. May C.: *Biochem. Pharmacol.* **71**, 1497. 2006.
 8. Sobol: *Doklady Biological Sciences* **406**, 27. 2006. ([Scopus](#))
 9. Yeung D.: *Faseb Journal* **20**, 610. 2006.
32. Gönczi, M., H. Papp, T. Bíró, L. Kovács, **L. Csernoch** (2002) Effects of protein kinase C on transmembrane calcium fluxes in HaCaT keratinocytes. *Experimental Dermatology* **11**, 25-33. **I.F.:** **2.434**, 9
1. Vanden, A.F.: *Cell Calcium* **33**, 357. 2003.
 2. Rada, B.K.: *Clin. Exp. Immunol.* **132**, 53. 2003.
 3. Lian X.: *Chinese Journal of Clinical Rehabilitation* **7**, 920. 2003. ([Scopus](#))
 4. Sakaguchi, M.: *J. Cell Biol.* **163**, 825. 2003.
 5. Zholos, A.: *J. Gen. Physiol.* **125**, 197. 2005.
 6. Tepperman, B.L.: *Eur. J. Pharmacol.* **518**, 1. 2005.
 7. Heo JS.: *Am. J. Physiol.* **290**, C123. 2006.
 8. Beck B.: *J. Investigative Dermatology* **126**, 1982. 2006.
33. Collet, C., **L. Csernoch**, V. Jacquemond (2003) Intramembrane charge movement and L-type calcium current in skeletal muscle fibres isolated from control and *mdx* mice. *Biophysical Journal* **84**, 251-265. **I.F.:** **1.695**, 13
1. Dowling, P.: *Biochem. J.* **379**, 479. 2004.
 2. Friedrich, O.: *J. Physiol.* **555**, 251. 2004.
 3. Pouvreau, S.: *J. Physiol.* **560**, 779. 2004.
 4. Frayesse, B.: *Neurobiol of Disease* **17**, 144. 2004.
 5. Nerbonne JM.: *Physiol. Rev.* **85**, 1205. 2005.
 6. Pouvreau S.: *J. Physiol.* **567**, 815. 2005.
 7. Zaldivar D.: *Biochem. Biophys. Res. Com.* **338**, 1572. 2005.
 8. Garcia MC.: *Biophys. J.* **89**, 3976. 2005.
 9. Yoshida M.: *Am. J. Phys.* **290**, R449. 2006.
 10. Allard B.: *J. Muscle Research And Cell Motility* **27**, 367. 2006.
 11. Diaz-Sylvester PL.: *J.Gen.Phys.* **130**, 581. 2007.
34. Fülöp, L., G.P. Szigeti, J. Magyar, N. Szentandrassy, T. Ivanics, Z. Miklós, L. Ligeti, A. Kovács, G. Szénási, **L. Csernoch**, P.P. Nánási, T. Bányász (2003) Differences in electrophysiological contractile properties of mammalian cardiac tissues bathed in bicarbonate- and HEPES-buffered solutions. *Acta Physiologica Scandinavica* **178**, 11-18. **I.F.:** **1.95**, 1
1. Fransen, P.: *Cardiovasc. Res.* **63**, 700. 2004.

35. Papp, H., G. Cifra, J. Lázár, M. Gönczi, **L. Csernoch**, L. Kovács, T. Bíró (2003) Protein kinase C isozymes regulate proliferation and high cell density-mediated differentiation in HaCaT keratinocytes. *Experimental Dermatology* 12, 811-824. **I.F.:** **2.303**, 12
1. Varga, E.: Life Sci. 75, 2411. 2004.
 2. Lazar, J.: Life Sci. 75, 153. 2004.
 3. Papp, H.: Cell. Mol. Life Sci. 61, 1095. 2004.
 4. Varga, A.: Eur. Urology 46, 462. 2004.
 5. Szentandrassy, N.: Cardiovasc. Res. 65, 851. 2005.
 6. Fischer A.: Chembiochem. 7, 441. 2006.
 7. Bodily JM.: Virology 348, 328. 2006.
 8. Lee SH.: Yonsei Medical J. 47, 293. 2006.
 9. Yamaguchi Y.: Faseb J. 22, 1009. 2008.
 10. Goh FG.: Cellular Signaling 20, 1267. 2008.
36. Bakondi, E., M. Gönczi, É. Szabó, P. Bai, P. Pacher, P. Gergely, L. Kovács, J. Hunyadi, Cs. Szabó, **L. Csernoch**, L. Virág (2003) Role of intracellular calcium mobilization and cell-density-dependent signaling in oxidative-stress-induced cytotoxicity in HaCaT keratinocytes. *Journal of Investigative Dermatology* 121, 88-95. **I.F.:** **4.194**, 6
1. Tepperman, B.L.: Eur. J. Pharmacol. 518, 1. 2005.
 2. Pesse X.: Biochem. Biophys. Res. Comm. 336, 157. 2005.
 3. Erdelyi K.: Cell. Mol. Life Sci. 62, 751. 2005.
 4. Macip S.: Oncogene 25, 6037. 2006.
37. Szentandrassy N., P. Szentesi, J. Magyar, P. P. Nanasi and **L. Csernoch** (2003) Effect of thymol on kinetic properties of Ca and K currents in rat skeletal muscle *BMC Pharmacology*, **3**, 9. **I.F.:** **0**
38. Szentandrassy, N., G.P. Szigeti, C. Szegedi, S. Sárközi, J. Magyar, T. Bányász, **L. Csernoch**, L. Kovács, P.P. Nánási, I. Jóna (2004) Effect of thymol on calcium handling in mammalian ventricular myocardium. *Life Sciences*. 74, 909-921. **I.F.:** **2.158**, 4
1. Tamura, T.: Biochem. Biophys. Res. Com. 318, 786. 2004.
 2. Huang MH.: Planta Medica 71, 1093. 2005.
 3. Pier Carlo Braga: Pharmacology; 77, 130. 2006. (Google)
 4. Vogt-Eisele AK.: Br. J. Pharmacol. 151, 530. 2007.
 5. Altafaj X.: Biochem.J. 406, 309. 2007.
39. Collet, C., S. Pouvreau, **L. Csernoch**, B. Allard, V. Jacquemond. (2004) Calcium signaling in isolated skeletal muscle fibers investigated under "silicone voltage-clamp" conditions. *Cell Biochemistry and Biophysics*. 40, 225-236. **I.F.:** **1.945**, 3
1. Legrand C.: J.Physiol. 506, 441. 2008.
 2. Xu YJ.: J.Cell.Mol.Med. 12, 942. 2008.
40. Szentesi, P, H. Szappanos, C. Szegedi, M. Gönczi, I. Jona, J. Cseri, L. Kovács, **L. Csernoch**. (2004) Altered elementary calcium release events and enhanced sarcoplasmic calcium release by thymol in rat skeletal muscle. *Biophysical Journal*. 86, 1436-1453. **I.F.:** **4.585**, 4
1. Rios, E.: Biol. Res. 37, 583. 2004.
 2. Huang MH.: Planta Medica 71, 1093. 2005.
41. Szappanos, H., J. Cseri, T. Deli, L. Kovács and **L. Csernoch**. (2004) Determination of depolarisation- and agonist-evoked calcium fluxes on skeletal muscle cells in primary culture. *Journal of Biochemical and Biophysical Methods*. 59, 89-101. **I.F.:** **1.302**, 7
1. Rezgui SS.: J. Biol. Chem. 280, 39302. 2005.
42. **Csernoch L.**, J. Zhou, M.D. Stern, G. Brum and E. Ríos. (2004) The elementary events of Ca²⁺ release elicited by membrane depolarization in mammalian muscle. *Journal of Physiology*. 557, 43-58. **I.F.:** **4.346**, 14
1. Rios, E.: Biol. Res. 37, 583. 2004.
 2. Zhou, J.S.: J. Gen. Physiol. 124, 409. 2004.
 3. Isaeva, E.V.: J. Physiol. 565, 583. 2005.
 4. Rios, E.: J. Phys. 565, 705. 2005.
 5. Zhou JS.: J. Gen. Physiol. 126, 301. 2005.
 6. Ter Keurs HEDJ.: Ann. N.Y. Ac. Sci. 1047, 345. 2005.
 7. Zhou JS.: Am. J. Physiol. 290, C539. 2006.
 8. ter Keurs HEDJ.: Prog. Biophys. Mol. Biol. 90, 151. 2006.
 9. Klein MG.: Progress In Biophysics & Molecular Biology 92, 308. 2006.
 10. Boncompagni S.: J. Gerontology Series A-Biological Sciences And Medical Sciences 61, 995. 2006.
 11. Pouvreau S.: Proceedings Of The National Academy Of Sciences Of The Usa 104, 5235. 2007.
 12. Niggli E.: Cell Calcium. 42, 379. 2007.
 13. Martins AS.: J. Physiol. 586, 197. 2008.
 14. Rodney GG.: Am.J.Phys. 294, 1288. 2008.
43. Szücs, A., H. Szappanos, A. Tóth, Z. Farkas, G. Panyi, L. Csernoch and I. Sziklai. (2004.) Differential expression of purinergic receptor subtypes in the outer hair cells of the guinea pig. *Hearing Research*. 196, 2-7. **I.F.:** **1.587**, 7
1. Li, Q.: J. Biol. Chem. 280, 26922. 2005.
 2. Hausley GD.: J. Membrane Biology. 209, 89. 2006.
 3. Sperlagh B.: Progress in Neurobiol. 78, 327. 2006.
 4. Bennett MR.: Biophysical Journal 91, 3560. 2006.
 5. Piazza V.: Cell Calcium 41, 77. 2007.

44. Szappanos, H., G. P. Szigeti, B. Pál, Z. Rusznák, G. Szűcs, É. Rajnavölgyi, J. Balla, G. Balla, E. Nagy, É. Leiter, I. Pócsi, F. Marx, **L. Csernoch**. (2005) The *Penicillium chrysogenum* derived antifungal peptide shows no toxic effects on mammalian cells in the intended therapeutic concentration. *Naunyn-Schmiedeberg's Archives of Pharmacology*. 371, 122-132. **I.F.:** **2.098**, 3
1. Meyer V.: *App. Microbiol. ans Biotechn.* 78, 17. 2008.
 2. Marx F.: *Cell. Mol. Life Sc.* 65, 445. 2008.
 3. Hamann A.: *Trends in Microbiol.* 16, 276. 2008.
45. Leiter, É., H. Szappanos, C. Oberparleiter, L. Kaiserer, **L. Csernoch**, T. Pusztahelyi, T. Emri, I. Pócsi, W. Salvenmoser, M. Florentine. (2005) The antifungal protein PAF severely affects the integrity of the plasma membrane of *Aspergillus nidulans* and induces an apoptosis-like phenotype. *Antimicrobial Agents and Chemotherapy*. 49, 2445-2453. **I.F.:** **4.379**, 17
1. Semighini CP.: *Mol. Microb.* 59, 753. 2006.
 2. Semighini CP.: *Genetics*. 173, 87. 2006.
 3. Gyetvai A.: *Fems Yeast Research* 6, 1140. 2006.
 4. Georgiou CD.: *Integrative And Comparative Biology* 46, 691. 2006.
 5. Robson GD.: *Medical Mycology* 44, S109-S114 Suppl. 1 SEP 2006.
 6. Molnar Z.: *J. Basic Microbiology* 46, 495. 2006.
 7. Glass NL.: *Current Opinion In Microbiology* 9, 553. 2006.
 8. Richie DL.: *Molecular Microbiology* 63, 591. 2007.
 9. Yadav V.: *J. Med. Microbiol.* 56, 637. 2007.
 10. Morton: *Molecular Microbiology* 65, 494. 2007.
 11. Ito S.: *FEBS Letters* 581 (17), pp. 3217. 2007.
 12. Aerts AM.: *J.Mol.Micro. Biotechn.* 13, 242. 2007.
 13. Marx F.: *Cell.Mol.Life Sc.* 65, 445. 2008.
 14. Semighini CP.: *Fems Microbiol. Let.* 279, 259. 2008.
 15. Leveau JHJ.: *New Phytol.* 177, 859. 2008.
 16. Hamann A.: *Trends in Microbiol.* 16. 276. 2008.
 17. Ramsdale M.: *Biochim. Biophys. Acta Mol. Cell. Res.* 1783, 1369. 2008.
46. Szappanos, H., S. Smida-Rezgui, J. Cseri, C. Simut, J-M. Sabatier, M. De Waard, L. Kovács, **L. Csernoch**, M. Ronjat. (2005) Differential effects of maurocalcine on Ca²⁺ release events and depolarisation-induced Ca²⁺ release in rat skeletal muscle. *Journal of Physiology*. 565, 843-853. **I.F.:** **4.272**, 3
1. Zhou JS.: *J. Gen. Physiol.* 126, 301. 2005.
 2. Boisseau S.: *Biochem Biophys. Acta-Biomembranes.* 1758, 308. 2006.
47. Szigeti, G.P., G.T. Somogyi, **L. Csernoch**, E. Szell. (2005) Age-dependence of the spontaneous activity of the rat urinary bladder. *Journal of Muscle Research and Cell Motility*. 26, 23-29. **I.F.:** **1.338**, 1
1. Kanai A.: *AM. J. PHYSIOL.-RENAL PHYSIOL.* 292, P1065. 2007.
 2. Arrighi S.: *Vet.Res.Comm.* 32, 291. 2008.
 3. Buyuknacar HS.: *Eur.J.Pharmacol.* 586, 293. 2008.
48. Szucs, A., S Somodi, J.T. Batta, G.P. Szigeti, L. Csernoch, G. Panyi, I. Sziklai. (2006) Differential expression of potassium currents in Deiters cells of the guinea pig cochlea. *Pflügers Archiv.* 452, 332-341, **I.F.:** **4.807**, 0
49. Szappanos, H., G.P. Szigeti, B. Pál, Z. Rusznák, G. Szűcs, É. Rajnavölgyi, J. Balla, G. Balla, E. Nagy, É. Leiter, I. Pócsi, S. Hagen, V. Meyer, **L. Csernoch**. (2006) The antifungal protein AFP secreted by *Aspergillus giganteus* does not cause detrimental effects on certain mammalian cells. *Peptides*. 27, 1717-1725. **I.F.:** **2.701**, 1
1. Hagen S.: *Appl. Environmental Microbiol.* 73, 2128. 2007.
50. Pouvreau S, **L Csernoch**, B Allard, JM Sabatier, M deWaard, M Ronjat, V Jacquemond. (2006) Transient loss of voltage control of sarcoplasmic reticulum calcium release in the presence of a scorpion venom toxin. *Biophysical Journal*. 91, 2206-2215. **I.F.:** **4.757**, 0
51. Csoma, E, T Deli, J Kónya, **L Csernoch**, Z Beck, L Gergely. (2006) Human herpesvirus 6A decreases the susceptibility of macrophages to R5 variants of human immunodeficiency virus 1: possible role of RANTES and IL-8. *Virus Research*. 121, 161-168. **I.F.:** **2.783**, 0
52. Pocsai, K, L Kosztka, G Bakondi, M Gönczi, J Fodor, B Dienes, P Szentesi, I Kovács, R Feniger-Barish, E Kopf, D Zharhary, G Szűcs, L Csernoch, Z Rusznák. (2006) Melanoma cells exhibit strong intracellular TASK-3-specific immunopositivity in both tissue sections and cell culture. *Cellular and Molecular Life Sciences*. 63, 2364-2376. **I.F.:** **4.655**, 0
1. Villalonga N.: *Rec.Pat.Anticancer Drug Disc.* 2, 212. 2007.
 2. Kapoor S.: *J. Neuroonkology* 88, 243. 2008.
53. Deli, T, IB Toth, G Czifra, H Szappanos, T Bfó, **L Csernoch**. (2006) Differences in purinergic and voltage-dependent signalling during protein kinase C α overexpression- and culturing-induced differentiation of C2C12 myoblasts. *Journal of Muscle Research and Cell Motility*. 27, 617-630. **I.F.:** **0.944**, 0
54. Szucs, A, H Szappanos, T Batta, A Tóth, GP Szigeti, G Panyi, **L Csernoch**, I Sziklai. (2006) Changes in purinoceptor distribution and intracellular calcium levels following moderate noise exposure in the outer hair cells of the guinea pig. *Journal of Membrane Biology*. **I.F.:** **2.112**, 0
55. Szigeti, GP, H Szappanos, T Deli, J. Cseri, L. Kovács, **L. Csernoch**. (2007) Differentiation dependent alterations in the extracellular ATP-evoked calcium fluxes of cultured skeletal muscle cells from mice. *Pflügers Archiv.* 453, 509-518. **I.F.:** **4.807**, 0

56. Deli, T, H Szappanos, GP Szigeti, J Cseri, L Kovács, **L Csernoch**. (2007) Contribution from P2X and P2Y purinoreceptors to ATP-evoked changes in intracellular calcium concentration on cultured muscle myotubes. *Pflügers Archiv*. **453**, 519-529. **I.F.:** **4.807**, 0
57. Deli T, N Varga, A Ádám, I Kenessey, E Rásó, L G. Puskás, J Fodor, M Fehér, GP Szigeti, **L Csernoch**, J Tímár. (2007) Functional genomics of calcium channels in human melanoma cells. *International Journal of Cancer*. 121, 55-65. **I.F.:** **4.693**, 0
58. **Csernoch L**. Sparks and embers of skeletal muscle: the exciting events of contractile activation. *Pflügers Archiv*. **I.F.:** **4.807**, 0
59. Gönczi M, N Szentandrassy, L Fülöp, A Telek, GP Szigeti, J Magyar, T Bíró, PP Nánási, L Csernoch. (2007) Stretch-activated channels influence the membrane potential and alter the proliferation of keratinocytes in vitro. *Experimental Dermatology*. 16, 302-310. **I.F.:** **2.449**, 0
60. Szigeti, GP, J Almássy, M Fehér, B Dienes, L Szabó, P Szentesi, G Vassort, S Sárközi, **L Csernoch**, I Jóna. (2007) Alterations in the calcium homeostasis of skeletal muscle from post-myocardial infarcted rats. *Pflügers Archiv*. **455**:541-553. **I.F.:** **4.807**, 0
61. Sztretye, M, T Deli, P Szentesi, GP Szigeti, **L Csernoch**. (2007) Effect of TPEN on the calcium release of cultured C2C12 mouse myotubes. *Journal of Muscle Research and Cell Motility*. **28**:421-428.
62. Rusznák, Z, G Bakondi, L Kosztka, K Pocsai, B Dienes, J Fodor, A Telek, M Gönczi, G Szűcs, **L Csernoch**. (2008) Mitochondrial expression of the two-pore domain TASK-3 channels in malignantly transformed and non-malignant human cells. *Virchows Archiv*. **452**:415-426.
63. Gönczi, M, A Telek, G Czifra, A Balogh, PM Blumberg, T Bíró, **L Csernoch**. (2008) Altered calcium handling following the recombinant overexpression of protein kinase C isoforms in HaCaT cells. *Experimental Dermatology*. **17**:584-591.
64. Matta, C, J Fodor, Z Sziógyártó, T Juhász, P Gergely, **L Csernoch**, R Zákány. (2008) Cytosolic free Ca²⁺ concentration exhibits a characteristic temporal pattern during in vitro cartilage differentiation: A possible regulatory role of calcineurin in Ca-signalling of chondrogenic cells. *Cell Calcium*. **44**:310-323.
65. Szentandrassy, N, P Birinyi, GP Szigeti, J Magyar, A Toth, **L Csernoch**, A Varro, PP Nanasi. (2008) SEA0400 fails to alter the magnitude of intracellular Ca²⁺ transients and contractions in Langendorff-perfused guinea pig hearts. *Naunyn-Schmiedeberg's Archives of Pharmacology*. **378**:65-71.
66. Almássy, J, M. Sztretye, B Lukacs, B Dienes, L Szabó, P Szentesi, G Vassort, **L Csernoch**, I Jóna. (2008) Effects of K-201 on the calcium pump and calcium release channel of rat skeletal muscle. *Pflügers Archiv* **457**:171-183.
67. Deli, T, **L Csernoch**. (2008) Extracellular ATP and cancer – an overview with special reference to P2 purinergic receptors. *Pathol Oncol Res*. **14**:219-231.
68. Lukács, B., M Sztretye, J Almássy, S Sárközi, B Dienes, K. Mabrouk, C Simut, L Szabó, P Szentesi, M De Waard, M Ronjat, I Jóna, **L Csernoch**. (2008) Charged surface area of maurocalcine determines its interaction with the skeletal ryanodine receptor. *Biophys J*. **95**:3497-3509.
69. Fodor, J., M Gönczi, M Sztretye, B Dienes, T Oláh, L Szabó, E Csoma, P Szentesi, GP Szigeti, I Marty, **L Csernoch**. (2008) Altered expression of triadin 95 causes parallel changes in localized Ca²⁺ release events and global Ca²⁺ signals in skeletal muscle cells in culture. *J Physiol*. **586**:5803-5818.
70. **Csernoch, L**, S Pouvreau, M Ronjat, V Jacquemond. Voltage-activated elementary calcium release events in isolated mouse skeletal muscle fibres. *J Membr Biol*.

Book chapters

1. **Csernoch, L.**, G. Pizarro, J. Garcia, G. Sz cs, E. Stefani, and E. Rios (1992). Effects of calcium release from the sarcoplasmic reticulum on intramembrane charge movement in skeletal muscle. In: *Advances in Experimental Medicine and Biology. Excitation Contraction Coupling in Skeletal, Cardiac and Smooth Muscle*, edited by G. B. Frank and P. Bianchi. New York: Plenum Press, pp. 137-148.
 1. Gallant E.M.: J Cell Physiol 165, 254. 1995.
 2. Yano, M.: J Biol Chem 270 19936. 1995
 3. Stroffekova, K.: Gen. Physiol. Biophys. 16, 79. 1997.
2. Ríos, E., Gonzalez A., Karhanek M., Ma J., Shirokov R., Pizarro G., **Csernoch L.** Fitts R. Uribe I., Hosey M. (1994) *Excitation-contraction coupling in frog skeletal muscle. Biochemistry IV*, (Ed: Melandri B.A. et al.) Plenum Press, pp. 225-254.
 1. Shirokova, N.: J. Physiol. 493, 317. 1996.
 2. Blatter, L.A. Proc. Nat. Acad. Sci. 94, 4176. 1997.
3. **Csernoch, L.**, J. Cseri, P. Szentesi, L. Kovács (2001) Calcium homeostasis in developing and adult skeletal muscle cells. In *Molecular and Cellular Biology: from plant to human*, edited by Z. Krasznai, L. Mátyus, B. van Dujin. Foundation of Single Cell Research, Leiden, 141-161.

Abstracts

1. **Csernoch, L.**, L. Kovács, G. Szűcs. (1987) How caffeine modifies calcium redistribution during contractile activation in frog skeletal muscle fibres. *Journal of Physiology*, 382, 164a.
 1. Hollingworth, S.: Cell Calc. 8, 327. 1987.
 2. Fryer, H.W.: J. Physiol. 416, 435. 1989.
 3. Pizarro, G.: J. Gen. Physiol. 97, 913. 1991.
2. **Csernoch, L.**, C.L.-H. Huang, L. Kovács, G. Szűcs. (1987) Charge movement components and calcium transients in isolated skeletal muscle fibers of the frog. *Journal of Physiology*, 382, 165a.
 1. Hollingworth, S.: Cell Calc. 8, 327. 1987.
 2. Hollingworth, S.: J. Physiol. 391, 89. 1987.
 3. Huang, C. L.-H.: Physiol. Rev. 71, 1197. 1991.
 4. Ríos, E.: Physiol. Rev. 71, 847. 1991.
 5. Pizarro, G.: J. Gen. Physiol. 97, 913. 1991.
3. **Csernoch, L.**, D. Feldmeyer, L. Kovács. (1987) The effect of guanidinium ion upon excitation-contraction coupling in isolated skeletal muscle fibers of the frog. *Journal of Physiology*, 390, 165a.
 1. Huang, C.L.-H.: Physiol. Rev. 68, 1197. 1988.
 2. Feldmeyer, D.: J Muscle Res. Cell Motil. 9, 541. 1988.
4. **Csernoch, L.**, I. Uribe, M. Rodriguez, G Pizarro, E. Ríos (1989) Q_T and Ca release flux in skeletal muscle fibers *Biophysical Journal*, 55, 88a.
 1. Chen, W.: J. Gen Physiol. 96, 535. 1990
 2. Rios, E.: J. Muscle Res. Cell Motil. 12, 127. 1991.
 3. Simon, B.J.: J. Gen Physiol. 97, 437. 1991.
 4. Rios, E.: Phys. Rev. 71, 849. 1991.
 5. Garcia, J.: J. physiol. 440, 403. 1991.
 6. Hui, C.S.: J.Gen.Phys. 98, 287. 1991.
 7. Hui, C.S.: J.Gen.Phys. 98, 315. 1991.
 8. Hui, C.S.: J.Gen.Phys. 98, 429. 1991.
 9. Huang, C.L.-H.: J. Gen. Physiol. 98, 249. 1991.
 10. Chen W.: J. Physiol. 444, 579. 1991.
 11. Hui, C.S.: J. Gen. Phys. 99, 985. 1992.
 12. Hui, C.S.: J. Gen. Phys. 99, 1017. 1992.
5. Pizarro, G., **L. Csernoch**, I. Uribe, and E. Rios (1989). Tetracaine and pathways of Ca^{2+} release in skeletal muscle. *Biophysical Journal*, 55, 237a.
6. Pizarro, G., **L. Csernoch**, and E. Rios (1990). An inward phase in intramembrane charge movement during a depolarizing pulse. *Biophysical Journal*, 57, 341a.
 1. Huang, C.L.-H.: J. Gen. Physiol. 96, 535. 1990.
 2. Rios, E.: J. Muscle Res. Cell Motil. 12, 127. 1991.
 3. Rios, E.: Phys. Rev. 71, 849. 1991.
 4. Huang, C.L.-H.: J. Gen. Physiol. 98, 249. 1991.
7. Kovács, L., J. Magyar, **L. Csernoch**, G. Szűcs. (1990) Delayed charge movement near the contraction threshold in skeletal muscle *Biophysical Journal*, 57, A342.
 1. Rios E.: Physiol. Rev. 71, 849. 1991.R
 2. Garcia J.: J. Physiol. London 440, 403. 1991.

8. Pizarro, G., M. Rodriguez, **L. Csernoch**, and E. Rios (1990). Positive feedback in skeletal muscle E-C coupling. *Biophysical Journal*, 57, 401a.
 1. Chen, W.: *Biophys. J.* 59, 503. 1991.
 2. Rios, E.: *J. Muscle Res. Cell Motil.* 12, 127. 1991.
 3. Pizarro, G.: *J.Gen. Phys.* 97, 913. 1991.
 4. Rios, E.: *Phys. Rev.* 71, 849. 1991.
 5. Hui, C.S.: *J.Gen.Phys.* 98, 287. 1991.
 6. Hui, C.S.: *J.Gen.Phys.* 98, 315. 1991.
 7. Rios, E.: *Annu. Rev. Phys.* 54, 109. 1992.
9. Pizarro, G., **L. Csernoch**, and E. Rios (1991) Modelling Q . *Biophysical Journal*, 59, PA67.
 1. Gonzalez, A.: *J. Gen. Physiol.* 102, 373. 1993.
10. Jacquemond, V., M.G.Klein, **L. Csernoch**, M.F.Schneider (1991) BAPTA selectively supresses peak calcium release in frog skeletal muscle fibers. *Biophysical Journal*, 59, 542a.
11. **Csernoch, L.**, Z. Papp, G. Sz cs, and L. Kovács (1991). Calcium binding properties of troponin-C at the contraction threshold in frog skeletal muscle fibers. *Biophysical Journal*, 59, 584a.
12. **Csernoch, L.**, V. Jacquemond, J. P. Y. Kao, and M. F. Schneider (1992). The effect of BAPTA type calcium buffers on the calcium release in frog skeletal muscle fibers. *Biophysical Journal*, 61, 23a.
 1. DELBONO O.: *J. Membrane Biology* 146, 91. 1995.
13. Pizarro, G., **L. Csernoch**, E. Ríos (1992) Tetracaine supresses the inactivating component of calcium release from the sarcoplasmic reticulum (SR). *Biophysical Journal*, 61, A22.
 1. Delbono, O.: *J. Membr. Biol.* 146, 91. 1995.
14. Papp, Z., **L. Csernoch**, and G. Sz cs L. Kovács (1992) Characterization of troponin-C calcium binding sites in cut frog skeletal muscle fibres. *J. Muscle Res. Cell Motil.*, 13, 250
15. **Csernoch, L.**, V. Jacquemond, and M. F. Schneider (1993). Peak calcium release suppressed by high affinity calcium buffers applied from the cut ends of frog skeletal muscle fibers. *Biophysical Journal*, 64, 37a.
16. **Csernoch, L.**, P. Szentesi, G. Szűcs and L. Kovács (1994). Time course of fibre shortening and its temporal correlation to calcium binding to troponin C in skeletal muscle. *J. Muscle Res. Cell Motil.*, 15, 174.
17. Kovács, L., S. Sárközi, P. Szentesi and **L. Csernoch** (1995) Pharmacologically distinct components of sarcoplasmic calcium release in frog skeletal muscle fibres. *J. Muscle Res. Cell Motil.*, 16, 140.
18. Kovács, L., P. Szentesi, **L. Csernoch** (1995). Kinetic comparison of isometric tension and intracellular calcium concentration changes in frog skeletal muscle fibres. *Journal of Physiology*, 487, 159P.
19. **Csernoch, L.**, T. Bíró, I. Szabó, K.P. Kis, J. Hunyadi, L. Kovács (1995). Calcium transients in a spontaneously immortalized human keratinocyte cell line (HaCaT). 2./ The effects of growth factors and keratinocytes activators. *Experimental Dermatology*, 4, 165.
20. Bíró, T., **L. Csernoch**, L. Kovács, I. Szabó, K.P. Kis, J. Hunyadi (1995). Calcium transients in a spontaneously immortalized human keratinocyte cell line (HaCaT). 1./ The effects of IP₃ and cAMP agonists. *Experimental Dermatology*, 4, 164.
21. **Csernoch, L.**, S. Sárközi, P. Szentesi, L. Kovács (1996) Cardiac glycosides enhance calcium release from the sarcoplasmic reticulum of the frog. *Biophysical Journal*, 70, A167.
22. **Csernoch, L.**, J.C. Bernengo, V. Jacquemond (1996) Measurements of free intracellular magnesium concentration ([Mg⁺⁺]_i) using the fluorescent indicator magindo-1 in isolated mouse skeletal muscle fibers. *Biophysical Journal*, 70, A169.
23. Kovács, L., P. Szentesi, **L. Csernoch** (1996). Calcium and force transients in voltage-clamped cut skeletal muscle fibres. *J. Muscle Res. Cell Motil.*, 17, 375.
24. Szentesi, P., L. Kovács, **L. Csernoch** (1996) The stimulation of tension from the measured changes of intracellular calcium in frog skeletal muscle fibres. *J. Muscle Res. Cell Motil.*, 17, 142.
25. Szentesi, P., V. Jacquemond L. Kovács, **L. Csernoch** (1998) Intramembrane charge movement and sarcoplasmic calcium release in enzymatically isolated mammalian skeletal muscle fibres *J. Muscle Res. Cell Motil.*, 19, 305-306.
26. Szentesi, P., **L. Csernoch**, L. Kovács (1999) Calcium dependent inactivation of sarcoplasmic calcium release in enzymatically isolated mammalian skeletal muscle fibres *J. Muscle Res. Cell Motil.*, 20, 88.
27. **Csernoch, L.**, P. Szentesi, S. Sárközi, C. Szegedi, I. Jona, L. Kovács (1999) Effects of tetracaine on sarcoplasmic calcium permeability and the ryanodine receptor calcium release channel in mammalian skeletal muscle fibres. *J. Muscle Res. Cell Motil.*, 20, 89-90.
28. Kovács, L., P. Szentesi, **L. Csernoch**, (1999) Effects of perchlorate on excitation-contraction coupling in mammalian skeletal muscle *Biophysical J.*, 76, A299.
29. **Csernoch L.**, P. Szentesi, L. Kovács, (1999) The control of calcium dependent inactivation of sarcoplasmic calcium release in mammalian skeletal muscle. *Biophysical J.*, 76, A299.
30. Szegedi C., S. Sárközi, P. Szentesi, L. Csernoch, L. Kovács, I. Jona (1999) Effect pf calcium on the ryanodine receptor of the rat. *J. Muscle Res. Cell Motil.*, 20, 834.

31. Szentesi, P., J. Bruton, L. Kovács, **L. Csernoch** (1999) Altered intramembrane charge movement in intact fatigued skeletal muscle fibres from *Xenopus laevis*. *J. Muscle Res. Cell Motil.*, 20, 834-835.
32. **Csernoch L.**, J. Cseri, L. Kovács (2000) ATP-induced changes in intracellular calcium concentration on human skeletal muscle fibres in culture. *J. Physiol.* 526, 30-31P.
33. Szentesi, P., L. Kovács, L. Csernoch (2000) Effect of altered intracellular Mg^{2+} concentration on the release of calcium from the sarcoplasmic reticulum in mammalian skeletal muscle *J. Physiol.* 526, 32P.
34. Szentesi, P., C. Collet, C. Szegedi, L. Kovács, **L. Csernoch** (2000) Effects of dantrolene on sarcoplasmic calcium release in rat skeletal muscle fibres. *J. Muscle Res. Cell Motil.*, 21,
35. V. Jacquemond, C. Collet and **L. Csernoch** (2002) Intramembrane charge movement and L-type calcium current in skeletal muscle fibers isolated from control and mdx mice. *Biophys. J.*, 82, 78a.
 1. Ahern CA: *Biophys J* 84 942. 2003
36. **Csernoch, L.**, P. Szentesi and L. Kovács (2002) Increased calcium release from the sarcoplasmic reticulum (SR) in the presence of thymol in mammalian skeletal muscle fibers. *Biophys. J.*, 82, 641a.
37. **Csernoch, L.**, P. Szentesi Cs. Szegedi, I. Jóna and L. Kovács (2002) Effects of thymol on the excitation-contraction coupling in mammalian skeletal muscle fibres. *Acta Physiol Hung* 89, 35.
38. Szappanos, H., P. Szentesi, **L. Csernoch**, L. Kovács and J. Cseri (2002) Calcium transients and purinergic activation on mouse skeletal muscle cells in primary culture. *Acta Physiol Hung* 89, 39.
39. Gönczi, M., Gy. Szigeti, L. Fülöp, J. Magyar, L. Kovács and **L. Csernoch** (2002) Role of stretch-activated channels in human keratinocytes. *Acta Physiol Hung* 89, 48.
40. Szentesi, P., J. Cseri, H. Szappanos, L. Kovács, **L. Csernoch** (2002) ATP and depolarization induced calcium transients at different stages of development in the C2C12 skeletal muscle cell line. *J. Muscle Res. Cell Motil.* 23, 28.
41. Gönczi, M., H. Papp, E. Bodó, L. Kovács, T. Bíró and **L. Csernoch** (2002) Effects of recombinant overexpression of PKC and on receptor-coupled calcium handling in HaCaT keratinocytes. *J Invest Dermatol* 119, 746,
42. Szentandrassy, N., M. Gönczi, H. Papp, J. Lázár, L. Kovács, T. Bíró and **L. Csernoch** (2002) Stretch-activated channels and their regulation by protein kinase C in HaCaT keratinocytes. *J Invest Dermatol* 119, 746
43. Zhou, J., **Csernoch, L.**, Launikonis, B., Brum, G., Stern, M.D., Cheng, H., Ríos, E. (2003) Concerted vs. sequential opening of vast arrays of channels in Ca^{2+} sparks of twitch muscle. *Biophys J* 84, 9a
 1. Raghavachari S, *J Neurophysiol* 92 (4): 2456-2467 2004
 2. Zhou JS.: *J. Gen. Physiol.* 124, 409. 2004.
 3. Wussling MHP.: *Biophysical J.* 87, 4333. 2004.
44. **Csernoch, L.**, Zhou, J., Launikonis, B., Adom, G., Stern, M.D., Brum, G., Ríos, E. (2003) The effects of SO_4^{2-} , a Ca^{2+} -precipitating buffer, on Ca^{2+} sparks of mammalian and batrachian twitch muscle. *Biophys J* 84, 386a
 1. Zhu J.: *J. Gen. Physiol.* 122, 95. 2003.
45. Zhou, J., **Csernoch, L.**, Launikonis, Yi, J., B., Adom, G., Ríos, E., García, J. (2003) Repression of Ca^{2+} sparks by voltage sensors or other T tubule structures in mammalian muscle. *Biophys J* 84, 386a
 1. Zhu J.: *J. Gen. Physiol.* 122, 95. 2003.
 2. Zhou JS.: *J. Gen. Physiol.* 26, 301. 2005
46. **Csernoch, L.** (2003) Excitation-contraction coupling: molecular insights for therapies. *Neuromusc. Disord.* 13, 634-635.
47. Szappanos, H., M. Gönczi, J. Cseri, L. Kovács, **L. Csernoch** (2003) Elementary calcium release events (ECRE) in the presence of thymol on mammalian skeletal muscle. *J. Muscle Res. Cell Motil.* 24, 359.
48. **Csernoch, L.**, H. Szappanos, J. Cseri, M. Gönczi, J.M. Sabatier, X. Altafaj, M. DeWaard, M. Ronjat (2004) Elementary calcium release events (ECRE) in the presence of the scorpion toxin maurocalcine. *Biophys. J.*
49. **Csernoch, L.**, M. Ronjat, J.M. Sabatier, C. Szegedi, I. Jóna (2004) Surface charge distribution commands the maurocalcine effect on the ryanodine receptor. *J. Muscle Res. Cell Motil.* 25, 257.
50. L. Csernoch, C. Simut, J. Almássy, C. Jung, E. Niggli, I. Jóna (2005) The low affinity calcium buffer TPEN alters calcium release from the sarcoplasmic reticulum (SR) of mammalian skeletal muscle. *Biophys J.* 88, 636a.
51. Z. Rusznak, K. Pocsai, B. Pal, P. Pap, L. Csernoch, G. Szucs (2005) Time-dependent changes of the TASK-3 channel expression pattern of melanoma cells maintained in tissue culture: is there a connection between cell-division and TASK-3 expression? *J. Physiol.* 567P, C6.
52. X Altafaj, K Mabrouk, I. Jóna, L. Csernoch, M. DeWaard, M. Ronjat (2005) The scorpion toxin maurocalcine; a tool to study the excitation-contraction coupling in skeletal muscle. *J. Muscle Res. Cell Motil.* 26, 59.
53. P Szentesi, C Simut, T Deli, L Csernoch (2005) Travelling elementary calcium release events in the presence of the low affinity calcium buffer in skeletal muscle fibres. *J. Muscle Res. Cell Motil.* 26, 63.
54. P Szentesi, C Simut, T Deli and L Csernoch (2005) Travelling elementary calcium release events (sparks) in the presence of TPEN, a low affinity calcium buffer, in skeletal muscle fibres. *Acta Physiol Hung.* 92, 310.
55. S Pouvreau, L Csernoch, B Allard, J M Sabatier, M de Waard, M Ronjat, V Jacquemond (2006) Transient loss of voltage control of Ca^{2+} release in the presence of Maurocalcine in mouse skeletal muscle. *Biophys J* 90, 1280a.

56. L Csernoch, S Pouvreau, V Jacquemond (2006) Voltage activated calcium release events in mouse skeletal muscle fibers. *Biophys J* **90**, 326a.
57. N Weisleder, L Csernoch, C Ferrante, H Szapannos, J Ma (2006) Quantal nature of sarcoplasmic reticulum Ca release in mammalian skeletal muscle. *Biophys J* **90**, 1551a.
58. A Jenes, F Ruzsnavszky, EA Széll, A Varga, GT Somogyi, L Csernoch GP Szigeti (2006) The role of the cholinergic and purinergic interaction in the contraction of the cultured human and rat urinary bladder smooth muscle cells. *J. Muscle Res. Cell Motil.* **27**, 498.
59. S Pouvreau, L Csernoch, B Allard, M Ronjat, V Jacquemond (2006) Nitric oxide and peptide modulation of excitation-contraction coupling in isolated mammalian skeletal muscle fibres. *J. Muscle Res. Cell Motil.* **27**, 513.
60. P. Szentesi, J Almássy, M Fehér, B Dienes, C A Simut, I Jóna, M Ronjat, L. Csernoch (2006) Mutations in the scorpion toxin maurocalcine alter its ability to modify the calcium release events in frog skeletal muscle. *J. Muscle Res. Cell Motil.* **27**, 516.