Gildas LOUSSOUARN
l'institut du thorax - Inserm UMR1087 - CNRS UMR6291 Research Director (DR2)
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POSITIONS and HONORS

Visiting Scientist, University of California San Francisco **2012-2013**
Focus: collaboration with the laboratory of Daniel Minor on sodium channels structure/function

Research Director (CNRS) **2011-**
Focus: Molecular physiology of potassium channels.
L'institut du thorax, University of Nantes. Director: R. Redon, PhD

Research associate (CNRS) **2001-2011**
Focus: Molecular physiology of potassium channels.
L'institut du thorax, University of Nantes. Director: D. Escande, MD, PhD/ P. Pacaud, PhD

HDR (Habilitation à Diriger des Recherches) **2005**
"from biophysics to bedside"

Post-Doctorate **1997-2001**
Focus: Structure and regulation of cardiac K_{ATP} channels
Department of Cellular Biology. Washington University of St Louis, USA
Principal Investigator: C.G. Nichols, PhD

Doctorate (University of Paris XI) **1994-1997**
Focus: pathophysiology of cystic fibrosis; role of CFTR in K channel regulation
INSERM CJF 96.01. University of Nantes. Principal Investigator: D. Escande, MD, PhD

FUNDINGS

Marie-Curie (2012-2013): 150.000 euros
AFM (2013-2014): 50.000 euros
Genavie (2016, 2019): 28.000 euros
PHC-Kolmogorov 2015-2017 : 15.000 euros
Fédération Française de Cardiologie, partner (2019-2022) : 300.000 euros
Région pays de Loire, partner (2020-2022): 150.000 euros
ANR COVID-19 (2020), partner: 200.000 euros

MEMBERSHIPS

Member, Biophysical Society (1998-)
Member, Société Française de Cardiologie (2007-)

EDITOR FOR: Pharmacology of ion channels and channelopathies

REFEREE FOR:

Journals: 'Wellcome Open Research','Frontiers in Cellular Neuroscience', 'Nature Communications, 'Journal of Molecular and Cellular Cardiology', 'Journal of Physiology', 'Pflugers Archiv-European Journal of Physiology', 'Journal of General Physiology', 'Journal of Biological Chemistry', 'Human Genetics', 'British Journal of Pharmacology', 'Plos One', 'Biophysical Journal', 'Expert Reviews in Molecular Medicine', Nature Chemical Biology',' Journal of Medical and Biological Engineering', 'Cellular Physiology and Biochemistry',' BBA – Biomembranes'
Funding agencies: The Human Frontiers Science Program, The Wellcome Trust, the National Science Foundation, the Israel Science Foundation, the Biotechnology and Biological Sciences Research Council, the binational Science Foundation, the FONDECYT, the AFM, the Austrian academy of Science, the Musculoskeletal Research Center in St Louis, The ARDoC santé Ile de France, and the Agence Nationale de la Recherche.

Original articles

51. AL-SAYED Z, PEREIRA C, LE BORGNE R, VIARIS DE LESEGNO C, JOUVE C, PENARD E, MALLET A, MASURKAR N, **LOUSSOUARN G**, VERBAVATZ JM, LAMAZE C, TREGOUËT DA, HULOT JS. CAVIN1-Mediated hERG dynamics: A Novel Mechanism Underlying The Interindividual Variability In Drug-Induced Long QT. *Circulation*. 150:563,2024.

50. OLIVEIRA-MENDES BBR, ALAMEH M, OLLIVIER B, MONTNACH J, BIDÈRE N, SOUAZÉ F, ESCRIOU N, CHARPENTIER F, BARÓ I, DE WAARD M, **LOUSSOUARN G**. SARS-CoV-2 E and 3a Proteins Are Inducers of Pannexin Currents. *Cells* 12:1474, 2023.

49. OLIVEIRA-MENDES BBR, ALAMEH M, MONTNACH J, OLLIVIER B, GIBAUD S, FELICIANGELI S, LESAGE F, CHARPENTIER F, **LOUSSOUARN G,** DE WAARD M, BARÓ I. Predicting hERG repolarization power at 37°C from recordings at room temperature. *Clin Transl Med.* 13:e1266, 2023.

48. FILIPIS L, BLÖMER LA, MONTNACH J, **LOUSSOUARN G**, DE WAARD M, CANEPARI M. Nav1.2 and BK channel interaction shapes the action potential in the axon initial segment. *J Physiol.* 601(10):1957-1979, 2023.

47. CAILLAUD M, LE DRÉAN ME, DE-GUILHEM-DE-LATAILLADE A, LE BERRE-SCOUL C, MONTNACH J, NEDELLEC S, **LOUSSOUARN G,** PAILLÉ V, NEUNLIST M, BOUDIN H. A functional network of highly pure enteric neurons in a dish. *Front Neurosci.* 16:1062253, 2023.

46. KARLOVA M, ABRAMOCHKIN DV, PUSTOVIT KB, NESTEROVA T, NOVOSELETSKY V, **LOUSSOUARN G**, ZAKLYAZMINSKAYA E, SOKOLOVA OS. Disruption of a Conservative Motif in the C-Terminal Loop of the KCNQ1 Channel Causes LQT Syndrome. *Int J Mol Sci*. 2022; 23:795

45. OLIVEIRA-MENDES B, FELICIANGELI S, MÉNARD M, CHATELAIN F, ALAMEH M, MONTNACH J, NICOLAS S, OLLIVIER B, BARC J, BARÓ I, SCHOTT JJ, PROBST V, KYNDT F, DENJOY I, LESAGE F, **LOUSSOUARN G**, DE WAARD M. A standardised hERG phenotyping pipeline to evaluate KCNH2 genetic variant pathogenicity. *Clin Transl Med.* 2021; 11:e609.

44. AL SAYED ZR, JOUNI M, GOURRAUD JB, BELBACHIR N, BARC J, GIRARDEAU A, FOREST V, DEREVIER A, GAIGNERIE A, CHARIAU C, CIMAROSTI B, CANAC R, OLCHESQUI P, CHARPENTIER E, SCHOTT JJ, REDON R, BARÓ I, PROBST V, CHARPENTIER F, **LOUSSOUARN G**, ZIBARA K, LAMIRAULT G, LEMARCHAND P, GABORIT N. A consistent arrhythmogenic trait in Brugada syndrome cellular phenotype. *Clin Transl Med.* 2021; 11:e413

43. MONTNACH J, BARÓ I, CHARPENTIER, DE WAARD M, **LOUSSOUARN G**, Modeling sudden cardiac death risks factors in covid-19 patients – the hydroxychloroquine and azithromycin case. *Europace* 2021; 23:1124-1133

42. MONTNACH J, LORENZINI M, LESAGE A, SIMON I, NICOLAS S, MOREAU E, MARIONNEAU C, BARÓ I, DE WAARD M, **LOUSSOUARN G**. Computer modeling of whole-cell voltage-clamp analyses to delineate guidelines for good practice of manual and automated patch-clamp. *Sci Rep.* 2021; 11:328.

41. DE WAARD S, MONTNACH J, RIBEIRO B, NICOLAS S, FOREST V, CHARPENTIER F, MANGONI ME, GABORIT N, RONJAT M, **LOUSSOUARN G**, LEMARCHAND P, DE WAARD M. Functional Impact of BeKm-1, a High-Affinity hERG Blocker, on Cardiomyocytes Derived from Human-Induced Pluripotent Stem Cells. Int J Mol Sci. 2020;21:7167

40. AL SAYED ZR, CANAC R, CIMAROSTI B, BONNARD C, GOURRAUD JB, HAMAMY H, KAYSERILI H, GIRARDEAU A, JOUNI M, JACOB N, GAIGNERIE A, CHARIAU C, DAVID L, FOREST V, MARIONNEAU C, CHARPENTIER F, **LOUSSOUARN G**, LAMIRAULT G, REVERSADE B, ZIBARA K, LEMARCHAND P, GABORIT N. Human model of IRX5 mutations reveals key role for this transcription factor in ventricular conduction. Cardiovasc Res. 2020:cvaa259

39. MALAK OA, ABDEREMANE-ALI F, WEI Y, COYAN FC, PONTUS G, SHAYA D, MARIONNEAU C, **LOUSSOUARN G**. Up-regulation of voltage-gated sodium channels by peptides mimicking S4-S5 linkers reveals a variation of the ligand-receptor mechanism. Sci Rep. 2020: 10(1):5852.

38. MALAK OA, GLUHOV GS, GRIZEL AV, KUDRYASHOVA KS, SOKOLOVA OS, **LOUSSOUARN G.** Voltage-dependent activation in EAG channels follows a ligand-receptor rather than a mechanical-lever mechanism. J Biol Chem. 294:6506-21, 2019 IF 4.1 (2018)

37. KARLOVA M, VOSKOBOYNIKOVA N, GLUHOV GS, ABRAMOCHKIN D, MALAK OA, MULKIDJANIAN A, **LOUSSOUARN G**, SHAITAN K, STEINHOFF HJ, SOKOLOVA OS. Detergent-free solubilization of human Kv channels, expressed in mammalian cells. Chemistry and Physics of Lipids. 2019:50-57, 2019. IF 2.094

36. MONTNACH J, CHIZELLE FF, BELBACHIR N, CASTRO C, LI L, **LOUSSOUARN G**, TOUMANIANTZ G, CARCOUËT A, MEINZINGER AJ, SHMERLING D, BENITAH JP, GÓMEZ AM, CHARPENTIER F, BARÓ I. Arrhythmias precede cardiomyopathy and remodeling of Ca2+ handling proteins in a novel model of long QT syndrome. *J Mol Cell Cardiol,* 123:13-25*,* 2018. IF 5.055

35. BUREL S, COYAN FC, LORENZINI M, MEYER MR, LICHTI CF, BROWN JH, **LOUSSOUARN G**, CHARPENTIER F, NERBONNE JM, TOWNSEND RR, MAIER LS, MARIONNEAU C. C-terminal phosphorylation of Nav1.5 impairs FGF13-dependent regulation of channel inactivation. *J Biol Chem*. 292:17431-48, 2017. IF 4.01

34. MALAK OA, ES-SALAH-LAMOUREUX Z, **LOUSSOUARN G**. hERG S4-S5 linker acts as a voltage-dependent ligand that binds to the activation gate and locks it in a closed state. Sci Rep. 2017 7(1):113 IF 4.6

33. ES-SALAH-LAMOUREUX Z, JOUNI M, MALAK OA, BELBACHIR N, AL SAYED ZR, GANDON-RENARD M, LAMIRAULT G, GAUTHIER C, BARÓ I, CHARPENTIER F, ZIBARA K, LEMARCHAND P, BEAUMELLE B, GABORIT N, **LOUSSOUARN G**. HIV-Tat induces a decrease in i_{KR} and i_{KS} via reduction in phosphatidylinositol-(4,5)-bisphosphate availability. J Mol Cell Cardiol. 99:1-13, 2016. IF 5.7

32. PORTERO V, LE SCOUARNEC S, ES-SALAH-LAMOUREUX Z, BUREL S, GOURRAUD JB, BONNAUD S, LINDENBAUM P, SIMONET F, VIOLLEAU J, BARON E, MOREAU E, SCOTT C, CHATEL S, **LOUSSOUARN G**, O'HARA T, MABO P, DINA C, LE MAREC H, SCHOTT JJ, PROBST V, BARÓ I, MARIONNEAU C, CHARPENTIER F, REDON R. Dysfunction of the voltage-gated k+ channel β2 subunit in a familial case of Brugada syndrome. J Am Heart Assoc. 5(6), 2016. IF 5.1

31. JOUNI M, SI-TAYEB K, ES-SALAH-LAMOUREUX Z, LATYPOVA X, CHAMPON B, CAILLAUD A, RUNGOAT A, CHARPENTIER F, **LOUSSOUARN G**, BARÓ I, ZIBARA K, LEMARCHAND P, GABORIT N. Toward Personalized Medicine: Using Cardiomyocytes Differentiated From Urine-Derived Pluripotent Stem Cells to Recapitulate Electrophysiological Characteristics of Type 2 Long QT Syndrome. *J Am Heart Assoc*. 4(9), 2015. IF 4.31

30. MORENO C, DE LA CRUZLA A, OLIVERAS A, KHARCHE SR, GUIZY M, COMES N, STARÝ T, RONCHI C, ROCCHETTI M, BARÓ I, **LOUSSOUARN G**, ZAZA A, SEVERI S, FELIPE A, VALENZUELA C. Marine n-3 PUFAs modulate IKs gating, channel expression, and location in membrane microdomains. *Cardiovasc Res.* 105:223-32, 2015. IF 5.47

29. BEZIAU DM, BARC J, O'HARA T, LE GLOAN L, AMAROUCH MY, SOLNON A, PAVIN D, LECOINTE S, BOUILLET P, GOURRAUD JB, GUICHENEY P, DENJOY I, REDON R, MABO P, LE MAREC H, **LOUSSOUARN G**, KYNDT F, SCHOTT JJ, PROBST V, BARÓ I. Complex Brugada syndrome inheritance in a family harbouring compound SCN5A and CACNA1C mutations. *Basic Res Cardiol.* 109:446, 2014. IF 5.96.

28. COYAN F, ABDEREMANE-ALI F, AMAROUCH MY, PIRON J, MORDEL J, NICOLAS CS, STEENMAN M, MEROT J, MARIONNEAU C, THOMAS A, BRASSEUR R, BARÓ I, **LOUSSOUARN G**. A Long QT Mutation Substitutes Cholesterol for Phosphatidylinositol-4,5-Bisphosphate in KCNQ1 Channel Regulation. PLoS One. 9:e93255, 2014. IF 3.73

27. SHAYA D, FINDEISEN F, ABDEREMANE-ALI F, ARRIGONI C, WONG S, NURVA SR, **LOUSSOUARN G**, MINOR DL, Jr. Structure of a Prokaryotic Sodium Channel Pore Reveals Essential Gating Elements and an Outer Ion Binding Site Common to Eukaryotic Channels. *J Mol Biol.* 426:467-83, 2014. IF 2.48

26. ABDEREMANE-ALI F, ES-SALAH-LAMOUEUX Z, DELEMOTTE L, KASIMOVA MA, LABRO AJ, SNYDERS DJ, FEDIDA D, TAREK M, BARÓ I, **LOUSSOUARN G**. Dual effect of PIP_2 on Shaker K+ channels. *J Biol. Chem.* 287:36158-67, 2012. IF 4.7

25. LAURENT G, SAAL S, AMAROUCH M.Y, BEZIAU D.M, MARSMAN R.F.J, FAIVRE L, BARC J, DINA C, BERTAUX G, BARTHEZ O, THAUVIN-ROBINET C, CHARRON P, FRESSART V, MALTRET A, VILLAIN E, BARON E, MEROT J, TURPAULT R, COUDIERE Y, CHARPENTIER F, SCHOTT JJ, **LOUSSOUARN G**, WILDE A, WOLF JE, BARÓ I, KYNDT F, PROBST V. F, Multifocal Ectopic Purkinje-related Premature Contractions: a new SCN5A-related cardiac channelopathy. *J Am Coll Cardiol* 60, 144-156, 2012. IF 14.29

24. LABRO AJ, BOULET IR, CHOVEAU F, MAYEUR E, BRUYNS T, **LOUSSOUARN G**, RAES AL, SNYDERS DJ. The S4-S5 linker of KCNQ1 channels forms a structural scaffold with the S6 segment controlling gate closure. *J Biol Chem.* 286:717-25, 2011. IF 5.33

23. CHOVEAU F, RODRIGUEZ N, ABDEREMANE ALI F, LABRO AJ, ROSE T, DAHIMENE S, BOUDIN H, LE HENAFF C, ESCANDE D, SNYDERS DJ, CHARPENTIER F, MEROT J, BARO I, **LOUSSOUARN G.** KCNQ1 channels voltage dependency through a voltage-dependent binding of the S4-S5 linker to the pore domain. *J Biol Chem.* 286:707-16, 2011. IF 5.33

22. PIRON J, CHOVEAU FS, AMAROUCH MY, RODRIGUEZ N, CHARPENTIER F, MEROT J, BARO I, **LOUSSOUARN G.** KCNE1-KCNQ1 osmoregulation by interaction of phosphatidylinositol-4,5-bisphosphate with Mg2+ and polyamines. *J Physiol*, 588:3471-3483, 2010. IF 4.76 → **Cf aussi "Comments" par N. Gamper in *J Physiol.* 588:3631-2, 2010**

21. RODRIGUEZ N, AMAROUCH MY, MONTNACH J, PIRON J, LABRO AJ, CHARPENTIER F, MEROT J, BARO I, **LOUSSOUARN G.** Phosphatidylinositol-4,5-bisphosphate (PIP_2) stabilizes the open pore conformation of the Kv11.1 (hERG) channel. *Biophysical J*, 99:1110-1118, 2010**.** IF 4.39

20. CHOVEAU FS, EL HARCHI A, RODRIGUEZ N, LOUERAT-ORIOU B, BARÓ I, DEMOLOMBE S, CHARPENTIER F, **LOUSSOUARN G.** Transfer of rolf S3-S4 linker to hERG eliminates activation gating but spares inactivation. Biophysical J, 97:1323-1334, 2009. IF 4.39

19. HAISSAGUERRE M, CHATEL S, SACHER F, WEERASOORIYA R, PROBST V, **LOUSSOUARN G,** HORLITZ M, LIERSCH R, SCHULZE-BAHR E, WILDE A, KAAB S, KOSTER J, RUDY Y, LE MAREC H, SCHOTT JJ. Ventricular fibrillation with prominent early repolarization associated with a rare variant of KCNJ8/KATP channel. J Cardiovasc Electrophysiol 20:93-8, 2009. IF 3.70

18. PEROZ D, DAHIMENE D, BARÓ I, **LOUSSOUARN G**, MEROT J. LQT1 associated mutations increase KCNQ1 proteasomal degradation independently of derlin-1. J Biol Chem. 284:5250-6, 2009. IF 5.33

17. NICOLAS C, PARK KH, EL HARCHI A, CAMONIS J, KASS RS, ESCANDE D, MEROT J, **LOUSSOUARN G**, LE BOUFFANT F, BARÓ I. IKs response to protein kinase A-dependent KCNQ1 phosphorylation requires direct interaction with microtubules. Cardiovasc Res 79:427-35, 2008. IF 5.95

16. BAUDOUIN SJ, ANGIBAUD J, **LOUSSOUARN G**, BONNAMAIN V, MATSUURA A, KINEBUCHI M, NAVEILHAN P, BOUDIN H. The signaling adaptor protein CD3zeta is a negative regulator of dendrite development in young neurons. Mol Biol Cell. 19:2444-2456, 2008. IF 5.56

15. **LOUSSOUARN G,** MARTON J, NICHOLS CG. Molecular Basis of Inward-rectification: Structural features of the blocker defined by extended polyamine analogs. *Molecular Pharmacology* **68**, 298-304, 2005. IF 4.61

14. PARK KH, PIRON J, DAHIMENE D, MÉROT J, BARÓ I, ESCANDE D, **LOUSSOUARN G**. Impaired KCNQ1/KCNE1 and Phosphatidylinositol-4,5-bisphosphate interaction underlies the Long QT Syndrome. *Circulation Research* **96**, 730-739,2005. IF 9.41

13. ROYER A, DEMOLOMBE S, EL HARCHI A, LE QUANG K, PIRON J, TOUMANIANTZ G, MAZURAIS D, BELLOCQ C, LANDE G, TERRENOIRE C, MOTOIKE HK, CHEVALLIER JC, **LOUSSOUARN G**, CLANCY CE, ESCANDE D, CHARPENTIER F. Expression of human ERG K(+) channels in the mouse heart exerts anti-arrhythmic activity. *Cardiovascular Research* **65**, 128-137,2005. IF 5.28

12. KURATA H.T, PHILLIPS L.R, ROSE T, **LOUSSOUARN G,** HERLITZE S, FRITZENSCHAFT H, ENKVETCHAKUL D, NICHOLS C.G, BAUKROWITZ T. Molecular basis of inward rectification: polyamine interaction sites located by combined channel and ligand mutagenesis. *Journal of General Physiology* **124**,541-554,2004. IF 5.10

11. **LOUSSOUARN G,** PARK KH, BELLOCQ C, BARO I, CHAPENTIER, F, ESCANDE D. Phosphatidylinositol-4,5-bisphosphate, PIP2, Controls KCNQ1/KCNE1 Voltage-gated Potassium Channels: a functional homology between voltage-gated and inward rectifier K+ channels. *EMBO J.* **22**, 5412-21,2003. IF 10.45

10. **LOUSSOUARN G**, PIKE LJ, ASHCROFT FM, MAKHINA EN, NICHOLS CG. Dynamic sensitivity of ATP-sensitive K^+ channels to ATP. *Journal of Biological Chemistry* **276**, 29098-29103, 2001. IF 7.26

9. **LOUSSOUARN G**, ROSE T, PHILLIPS R, MASIA R, NICHOLS CG. Flexibility of the Kir6.2 inward rectifier channel pore. *Proc. Natl. Acad. Sci. USA* **98**,4227-4232, 2001. IF 10.90

8. ENKVETCHAKUL D, **LOUSSOUARN G**, MAKHINA EN, NICHOLS CG. ATP interaction with the open state of the K_{ATP} channels. *Biophysical Journal* **80**,719-728, 2001. IF 4.64

7. GRIBBLE FM, **LOUSSOUARN G**, TUCKER SJ, ZHAO C, NICHOLS C, ASCHCROFT FM. A novel method for measurement of sub-membrane ATP concentration. *Journal of Biological Chemistry* **278**,30046-30049, 2000. IF 7.26

6. ENKVETCHAKUL D, **LOUSSOUARN G**, SHYNG SL, MAKHINA EN, NICHOLS CG. A critical gating transition in K_{ATP} channels: ATP stabilizes a closed-state. *Biophysical Journal* **78**,2334-2348, 2000. IF 4.63

5. **LOUSSOUARN G**, MAKHINA EN, ROSE T, NICHOLS CG. Structure and dynamics of the pore of inward rectifier K_{ATP} channels. *Journal of Biological Chemistry* **275**,1137-1144, 2000. IF 7.26

4. POLLARD H, REMY JS, **LOUSSOUARN G**, DEMOLOMBE S, BEHR JP, ESCANDE D. Polyethylenimine but not cationic lipids promotes transgene nuclear targeting in mammalian cells. *Journal of Biological Chemistry* 273: 7507-7511, 1998. IF 7.20

3. MOHAMMAD-PANAH R, DEMOLOMBE S, RIOCHET D, LEBLAIS V, **LOUSSOUARN G**, POLLARD H, BARÓ I, ESCANDE D. Hyperexpression of recombinant CFTR in heterologous cells alters its physiological properties. *American Journal of Physiology* 274: C310-C318, 1998. IF 3.08

2. **LOUSSOUARN G**, CHARPENTIER F, MOHAMMAD-PANAH R, KUNZELMANN K, BARO I, ESCANDE D. KvLQT1 potassium channel but not Isk is the molecular target for chromanol 293B. *Molecular Pharmacology* 52: 1131-1136, 1997. IF 4.92

1. **LOUSSOUARN G**, DEMOLOMBE S, MOHAMMAD-PANAH R, ESCANDE D, BARÓ I. Expression of CFTR controls cAMP-dependent activation of epithelial K^+ currents. *American Journal of Physiology*, 271: C1565-1573, 1996. IF 3.08

Reviews

12. ALAMEH M, OLIVEIRA-MENDES BR, KYNDT F, RIVRON J, DENJOY I, LESAGE F, SCHOTT JJ, DE WAARD M, **LOUSSOUARN G.** A need for exhaustive and standardized characterization of ion channels activity. The case of KV11.1. *Front Physiol.* 14:1132533, 2023

11. BEAUMELLE B, TOTH P, MALAK OA, CHOPARD C, **LOUSSOUARN G**, VITALE N. Phosphatidylinositol (4,5)-bisphosphate-mediated pathophysiological effect of HIV-1 Tat protein. *Biochimie* 141:80,2017.

10. **LOUSSOUARN G**, STERNBERG D, NICOLE S, MARIONNEAU C, LE BOUFFANT F, TOUMANIANTZ G, BARC J, MALAK O, FRESSART V, PEREON Y, BARO I AND CHARPENTIER F. Physiological and pathophysiological insights of Nav1.4 and Nav1.5 comparison. *Front. Pharmacol.* 6:314, 2015. IF 3.8

9. **LOUSSOUARN G**. Les courants potassiques rectifiants entrants cardiaques. *Archives de Maladies du cœur et des Vaisseaux Pratique.* 237 :14-27, 2015.

8. ABRIEL H, DE LANGE E, KUCERA JP, **LOUSSOUARN G**, TAREK M. Computational tools to investigate genetic cardiac channelopathies. *Front Physiol.* 2013, 4:39. IF 3.5

7. COYAN FC, **LOUSSOUARN G**. Cholesterol regulation of ion channels: Crosstalk in proteins, crosstalk in lipids. *Channels (Austin).* 7(6), 2013. IF 2.16

6. **LOUSSOUARN G,** TAREK M. Mechanisms of ion channels voltage-dependency: all about molecular sensors, gates, levers, locks and grease. *Front. Pharmacol,* 3:174, 2012 IF 3.8 (IF 2015)

5. CHOVEAU FS, ABDEREMANE ALI F, COYAN FC, ES-SALAH-LAMOUEUX Z, BARÓ I, **LOUSSOUARN G**. Opposite effects of the S4–S5 linker and PIP_2 on voltage-gated channel function: KCNQ1/KCNE1 and other channels. *Front. Pharmacol.* 3:125, 1-16, 2012. IF 3.8 (IF 2015)

4. **LOUSSOUARN G**, BARÓ I. Neural modulation of ion channels in cardiac arrhythmias: Clinical implications and future investigations. *Heart Rhythm.* 7:847-849, 2010. IF 4.44

3. CHARPENTIER F, MEROT J, **LOUSSOUARN G**, BARÓ I. Delayed rectifier K(+) currents and cardiac repolarization. *J Mol Cell Cardio*l, 48:37-44, 2010. IF 5.05

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1. **LOUSSOUARN G,** ROSE T, NICHOLS CG. Structural Basis of Inward Rectifying Potassium Channel Gating. *Trends in Cardiovascular Medecine* **12**, 253-258, 2002. IF 3.40

Book Chapters

4. DEYAWE A, KASIMOVA MA, DELEMOTTE L, **LOUSSOUARN G**, TAREK M. Studying Kv Channels Function using Computational Methods. In "Methods Mol Biol. Potassium Channels" eds. Show-Ling Shyng, Francis Valiyaveetil and Matt Whorton, Humana Press Methods Mol Biol. 2018; 1684:321-341.

3. NOVOSELETSKY V, MALAK OA, **LOUSSOUARN G**, SOKOLOVA OS. Building Atomic Models of the Ion Channels Based on Low Resolution Electron Microscopy Maps and Homology Modeling. Dans "Methods Mol Biol. Potassium Channels" eds. Show-Ling Shyng, Francis Valiyaveetil and Matt Whorton, Humana Press Methods Mol Biol. 2018; 1684:305-319.

2. NICOLAS C, PIRON J, RODRIGUEZ N, CHOVEAU F, DAHIMENE D, PEROZ D, MÉROT J, BARÓ I and **LOUSSOUARN G**. Molecular description of KCNE1/KCNQ1 cardiopathies. In "Ion Channels Biophysics and Diseases", Research Signpost Publisher, ed. H Duclohier 2009; 13-41.

1. LOUSSOUARN G, BARÓ I, ESCANDE D. KCNQ1 K+ channel-mediated cardiac channelopathies. In "Methods Mol Biol. Ion Channels methods and protocols" eds. JD Stockand. et MS Shapiro, Humana Press 2006; 337:167-83.

Invited communications

23. KCNQ1 / hERG activating peptides. Department of Physiology. University of Berne. Feb. 26 2024.

22. High-throughput technology for channel phenotyping and development of photo-sensitive compounds. Discovery for Ion Channels XXIII Satellite Meeting. San Diego Feb 17 2023.

21. A clinical database for cardiac arrhythmias. Nantes Université. October 6 2022.

20. How voltage-sensor movement transfers to gate opening in several voltage-gated channels. University of Shenzen. April 6 2022.

19. How voltage-sensor movement transfers to gate opening in several voltage-gated channels. Young Investigator School in Moscow. Moscow, Lomonosov University, November 13 2020

19. COVID-19 projects of the "institut du thorax". Official visit of the Minister of education and research, Nantes, october 22, 2020

18. Opposite effects of the S4–S5 linker and the phospholipid PIP_2 on voltage-gated channel function: KCNQ1, hERG and other channels. Young Investigator School in Nantes. Nantes IRS-UN, June 1-2 2017

17. hERG S4-S5 linker acts as a voltage-dependent ligand that binds to the activation gate and locks it in a closed state. Young Investigator School in Moscow. Moscow, Lomonosov University, May 26 2016

16. Molecular mechanisms of Kv and Nav voltage dependent gating: a unified model. Workshop "Computational tools to investigate genetic channelopathies", Beatenberg, January 10-12 2016

15. Canaux sodiques musculaires : vers une nouvelle approche thérapeutique ? Quintessia Hotel, Orvault, September 21 2015

14. Molecular mechanisms of voltage-dependence in Nav and Kv channels, Institut du Cerveau et de la Moelle, November 14 2014.

13. Molecular mechanisms of voltage-dependence in Nav1.4 channels. Groupe Résocanaux, Hôpital Salpêtrière, June 20 2014.

12. Insights into Kv and Nav voltage-dependent gating Implications in channelopathies. Worshop "Computational tools to investigate genetic channelopathies", Beatenberg, October 9-12 2013.

11. Voltage dépendance du canal KCNQ1 et son implication dans les canalopathies. Séminaire externe, Centre de Recherche en Neurobiologie et Neurophysiologie de Marseille, December 6 2010.

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