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Education

1997 Habilitation à diriger des recherches, Bordeaux University.
1994-1996 Sabbatical stay, Duke University (N.C., USA). EMBO Fellow.
1990 Post-doctoral stay, Irvine University (CA, USA) Supervisor Pr. M. Cahalan.
1988 PhD : Paris VI University. Option Pharmacology. Institut Pasteur.
1984 Diploma from the Ecole Centrale des Arts et Manufactures de Paris.

Employment and Research Experience

2011- Director of the Institute for Interdisciplinary Neuroscience, UMR 5297 CNRS-Université de Bordeaux
2011- Director of the Bordeaux Imaging Center, UMS 3420 CNRS-University of Bordeaux-INSERM
2011- Director of the Excellence Cluster BRAIN (Bordeaux Région Aquitaine Initiative for Neuroscience)
2007-2010 Adjunct director of the laboratory Cellular Physiology of Synapses, UMR 5091.
1999-2010 Group leader CNRS, "Cellular Physiology of Synapses", Bordeaux University.
1998- Research director at the CNRS.
1996-1999 Junior group leader at the CNRS/ Bordeaux University. Recipient of an ATIP Grant.
1988-1998 Research officer at the CNRS.

Honors and Awards

2018 Presidential conference SFN 2018 San Diego
2018 Prix « La Recherche », mention neurosciences
2016 Chevalier de la légion d'honneur
2015 Member of the Academia Europa
2014 Member of EMBO
2008, 2013, 2018: 3 consecutive Advanced ERC grant from the European commission
2012 Chevalier de l'ordre des Palmes académiques
2011 Victoires de la médecine 2011
2010 Member of the French Academy of Science, Prix de l'Académie Nationale des Sciences, Belles-Lettres et Arts de Bordeaux
2009 Silver Medal from the CNRS, Advanced ERC grant from the European commission
2004 Grand prix from the French Academy of Sciences, prix du CEA.
1997 Research prize from the « Fondation pour la Recherche Médicale »
1994 Prize from the « société de secours des amis de la science », Petit-Dormoy prize from the French Academy of Sciences
1990 Bronze medal from the CNRS

Current other Administrative functions

2008-> Member of the Bordeaux Neurocampus steering committee.
2010-> Member of the ESFRI EuroBioImaging ERIC Board - representing CNRS.
2018-> Member of the Committee of committee board of the Society for Neuroscience (USA)
2018> Member of the MOE Tier 3 panel, Singapour Ministry of Education

10 Selected Publications (Out of ~150 publications, >12800 citations; h-Index 64 – WOS, 2020)

- 1) Groc, I. & Choquet, D. Linking glutamate receptor movements and synapse function. *Science* June 12th 2020.
- 2) Penn, A., Zhang, C., Georges, F., Royer, L., Breillat, C., Hosy, E., Petersen, J., Humeau, Y., and Choquet, D. (2017). Hippocampal LTP and contextual learning require surface diffusion of AMPA receptors. *Nature* 549, 384.

- 3) Hafner, A.S., Penn, A.C., Grillo-Bosch, D., Retailleau, N., Poujol, C., Philippat, A., Coussen, F., Sainlos, M., Opazo, P., and **Choquet, D.** (2015) Lengthening of the Stargazin Cytoplasmic Tail Increases Synaptic Transmission by Promoting Interaction to Deeper Domains of PSD-95. *Neuron* 86, 475-489.
- 4) Constals, Penn, A.C., Compans, B., Toulme, E., Phillipat, A., Marais, S., Retailleau, N., Hafner, A.S., Coussen, F., Hosy, E., and **Choquet, D.** (2015). Glutamate-induced AMPA receptor desensitization increases their mobility and modulates short-term plasticity through unbinding from Stargazin. *Neuron* 85, 787-803.
- 5) Kneussel, M., Triller, A. & **Choquet, D.** SnapShot: receptor dynamics at plastic synapses. *Cell* 157, 1738-1738 e1731 (2014).
- 6) Sainlos, M., Tigaret, C., Poujol, C., Olivier, N.B., Bard, L., Breillat, C., Thiolon, K., **Choquet*, D.**, and Imperiali*, B. (2011). Biomimetic divalent ligands for the acute disruption of synaptic AMPAR stabilization. *Nat Chem Biol* 7, 81-91. *Co-last authors.
- 7) Opazo, P., Labrecque, S., Tigaret, C.M., Frouin, A., Wiseman, P.W., De Koninck, P., and **Choquet, D.** (2010). CaMKII Triggers the Diffusional Trapping of Surface AMPARs through Phosphorylation of Stargazin. *Neuron* 67, 239-252 (2010).
- 8) Heine, M., Groc, L., Frischknecht, R., Beique, J.C., Lounis, B., Rumbaugh, G., Huganir, R.L., Cognet, L., and **Choquet, D.** (2008). Surface mobility of postsynaptic AMPARs tunes synaptic transmission. *Science* 320, 201-205.
- 9) Borgdorff, A.J., and **Choquet, D.** (2002). Regulation of AMPA receptor lateral movements. *Nature* 417, 649-653.
- 10) **Choquet, D.**, Felsenfeld, D.P., Sheetz, M.P., and M-397 (1997). Extracellular matrix rigidity causes strengthening of integrin-cytoskeleton linkages. *Cell* 88, 39-48.

10 Selected invitations (Out of ~200 invitations, including around 25 invitations to Gordon conferences)

- 1) International Society of Neurochemistry meeting on Synapse Biology and Disease, Riviera Maya, Mexico April, 2013. Plenary Lecture.
- 2) The 14th Hunter Meeting, Queensland, Australia, April 2014. Keynote lecture
- 3) Super-Resolution Microscopy EMBL/Leica Course 21st - 25th July 2014. Keynote lecture.
- 4) 7th INCF Congress, Neuroinformatics August 2014, Leiden, The Netherlands. Plenary Lecture.
- 5) 4th Single Molecule Localization Microscopy Symposium. King's College, London. August 2014. Keynote Lecture.
- 6) FASEB congress, Saxton, July 2015. MA, Keynote Lecture.
- 7) Newcomb memorial lecture at NIH neuroscience series, Bethesda, February 2017
- 8) The Brain Conferences, Rungstedgaard, Denmark, April 2017
- 9) Society for Neuroscience Meeting, san Diego; Presidential Lecture; 03/11/2018
- 10) Plenary Speaker, Receptor Light Symposium June 3rd 2019 | Jena, Allemagne