

Curriculum Vitae

Last name: Monteil

First name: Arnaud

Born : March 23, 1970

Nationality: France

Professional address :

Institut de Génomique Fonctionnelle
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Publication number: [61 referenced in Pubmed](#); 3 book chapters

Citation number: between 3486 and 5141 depending on the sources:

Google Scholar: Citation number: 5178 H-Index: 32 I10-index: 42

ResearchGate: Citation number: 4387 H-Index: 32

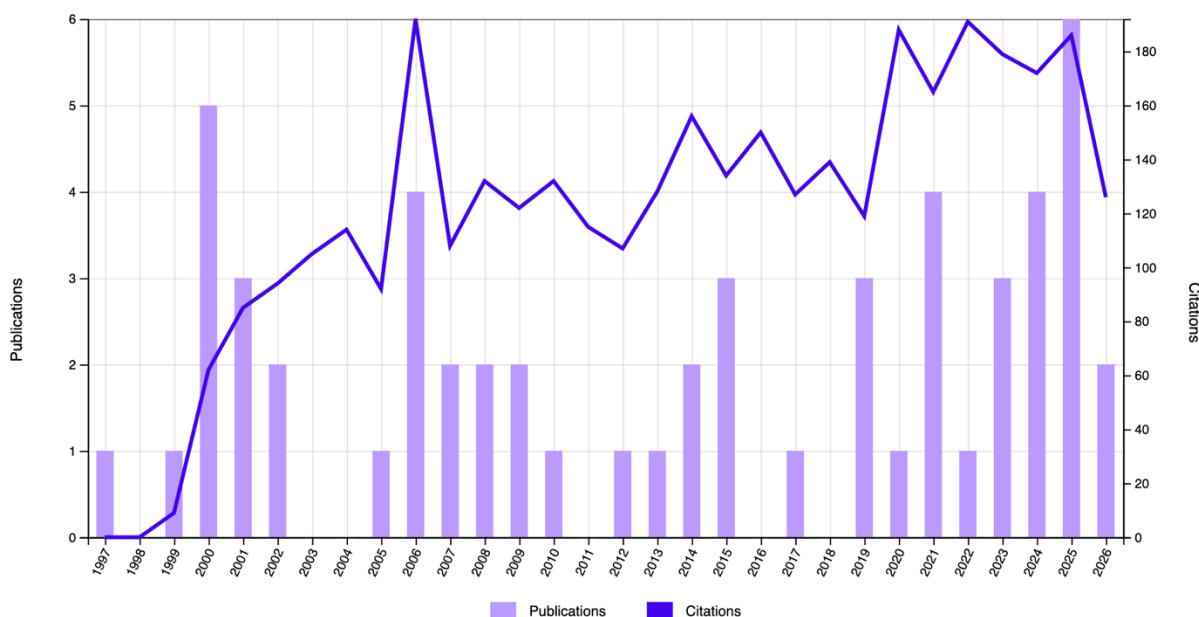
Scopus: Citation number: 3510 H-Index: 27

Web of Science: Citation number: 3521 H-Index: 28

Invited oral presentations & conferences: 59 (51 at international level)

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Education:

University of Montpellier, France
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H.D.R. 2012 – 2013
Thesis/Ph.D. 1996 – 2000
D.U. 1995 - 1996
Master 2 1994 - 1995
Master 1 1993 - 1994
Licence 1991 - 1993
D.E.U.G. B 1989 - 1991

Molecular Biology
Immunology
Molecular Biology
Molecular Biology
Molecular Biology
Biology

A. Positions and Employment

2001 – present	<u>Permanent Researcher (CRCN then CRHC in 2022 – CNRS)</u> Team « Ion Channels in Neuronal Excitability and Diseases » Institut de Génétique Fonctionnelle CNRS UMR5203 – INSERM U1191 – University of Montpellier Dr. P. Lory: Group Leader.
2000 – 2001	<u>Research associate (University of Chicago, U.S.A.)</u> Department of Pharmacology, Neurobiology and Physiology Pr. R.J. Miller: Principal Investigator
1996 – 2000	<u>Graduate Student (University of Montpellier, France)</u> Institut de Génétique Humaine CNRS UPR 1142 Dr. J. Nargeot: Principal Investigator
1995 – 1996	<u>Master Student (University of Montpellier, France)</u> Hôpital St. Eloi – Department of Immunology Pr. J. Clot: Principal Investigator
1994 – 1995	<u>Master Student (University of Montpellier, France)</u> Laboratoire de Chimie Bactérienne - CNRS – Marseille Pr. J. Haiech: Principal Investigator

B. Others

2023 – 2028	<u>Adjunct Professor at Mahidol University</u> (Faculty of Medicine Siriraj Hospital) - Thailand
2023 – Present	<u>Channeling Hope Foundation: President of the scientific committee</u>
2022 – 2026	<u>Coordinator of the RestoreLeak consortium (ERA-NET)</u>
2021 – Present	<u>Member of the Users' committee of the PHENOMIN network</u>
2015 – Present	<u>President of the French “Ion Channels” society</u>
2015 – Present	<u>Member of the Safety Committee of the A3L3 Confined Experimentation Facility (University of Montpellier)</u>
2020 – 2023	<u>Libellas foundation: President of the scientific committee</u> <i>Note: The Libellas foundation closed in 2023</i>
2016 – 2021 & 2021 - 2025	<u>Elected member of the National Committee of the CNRS</u> (Sub-committee #24 « Physiology, Physiopathology and Biology of Cancer »)
2008 – present	<u>Head of the Vectorology facility of Montpellier (France)</u> UAR BioCampus (CNRS – INSERM – UM)
2020 - present	<u>Associate Editor - AllLife</u>
2020 - present	<u>Review Editor - Frontiers in Molecular Neuroscience</u>
2021 - present	<u>Associate Editor - BMC Research Notes</u>

C. Peer-reviewed publications

Research Articles:

Ongoing:

Thongsepee N.*, Seto M.*, Typou A., Tanner J.A., Wells J.A., Lory P., Holmes B.B., **Monteil A.**[€] Targeting the sodium leak channel NALCN with a nanobody reveals a new avenue for therapeutic modulation. *In preparation.*

Thongsepee N.*, Tanner J.A.*[€], Yuan Y.*, Polusani S., Typou A., Lory P., Zhou D., Dwyer D.S., **Monteil A.**[€] A high-throughput screening assay targeting NALCN channel function uncovers FDA-approved modulators. *In preparation.*

Baretino C., Ballesteros A., Molina Y., Maldonado J., Soriano M., Lisowski L., Pless S.A., Gil-Nagel Rein A., **Monteil A.**, Reig R., del Pino I. Preferential vulnerability of cortical GABAergic interneurons to *Nalcn* deficiency. *Submitted*
<https://www.biorxiv.org/content/10.64898/2026.01.21.700772v1>

Hadouri N.*, Garcia L.P.*, Baudat R., Parra P., Gil-Nagel Rein A., Del Pino Pariente I., Whalen S., Grotto S., Brtunet T., Brugger M., Marafi D., Vill K., Lederer D., Karadurmus D., Desir J., Nassogne M.C., Favier M., Srivastava S., Brischoux Boucher E., Levy J., Yound D., Horvath G., Marey I., Dietrich K., Fiorillo C., Weigand H., Hannane N., Shillington A., Stange L., Argilli E., Lee B.H., Gates R.W., Maystadt I., Deprez M., Lesca G., Rode G., Ruault V., Soliani L., Eaton A.J., Morneau-Jacob F.D., Prinzing G., Poduri A., Sacharow S., Chorney S.R., Rahikkala E., Georgia V., Reis A., Pauly M., Huffmeier U., Kraus C., Barnett C.P., Scott H.S., Calame D., Tanner J.A., Spinelli E., Gueugnon M., Lebeaupin F., Faivre L., Lory P., Thauvin-Robinet C., **Monteil A.**€ *De novo* variants of *NALCN* differentially impact both the phenotypic spectrum of patients and the biophysical properties of the *NALCN* current. *In revision*

This article presents the results of the first standardized study of a large cohort of patients with de novo pathogenic variants of the sodium leakage channel NALCN. The study highlights, for the first time, considerable heterogeneity both in the range of symptoms expressed by patients and in the functional impact of the mutations.

Published:

- 1- Castell L., Rogliardo A., Le Borgne T., Naon C., Cathala A., Puighermanal E., Makrini L., Mashhour N., Petit C.P., Bernat C., Nouvian R., Cutando L., Revest J.-M., Faure P., Besnard A., Bellone C., **Monteil A.**, Gangarossa G., Marti F., Valjent E. [Midbrain dopamine D2R regulates the salience of threat-related events](#). *J Physiol*, in press
 bioRxiv 2024.11.12.623233; doi: <https://doi.org/10.1101/2024.11.12.623233>

- 2- Thongsepee N., Typou A., Baudat R., Tanner J.A., del Pino I., Dwyer D.S., Lory P., **Monteil A.**€ (2026) An improved electrophysiological cellular assay to unlock the pharmacological modulation of the *NALCN* channelosome. *Biomedicine & Pharmacotherapy*, May 1;199:119458. doi: 10.1016/j.biopha.2026.119458. [PMID : 42068819](#)

This article describes the development of a cellular platform to study pharmacological properties of the NALCN current. Notably, this study highlights a cell cycle-dependence of the current.

- 3- Lo Piccolo L., Yeewa R., Noisagul P., **Monteil A.**, Shotelersuk V., Jantrapirom S. (2026) Dopaminergic neurons are vulnerable to dysregulation of YEATS2-dependent calcium homeostasis. *iScience*, Jun 19;29(6):115855. doi: 10.1016/j.isci.2026.115855. eCollection 2026 Jun 19. [PMID: 42109848](#)

- 4- Castell L., Naon C., Rogliardo A., Makrini L., Avrillon M., Mignon A., Bernat C., Lory P., Bertaso F., **Monteil A.**, Bosch-Bouju C., Valjent E. (2026) Sex-biased effect of sodium leak channel *NALCN* deletion in striatal *Drd2* spiny projection neurons. *Neuropsychopharmacology*, in press. [PMID: 41673358](#)

This article describes for the first time a sex dependence in the phenotypic impacts of NALCN knock-out in neurons. In addition, this study highlights a hyperpolarising role for NALCN in neurons.

- 5- Sornsene P., Kooltheat N., Pattarangoon N.C., Surachat K., **Monteil A.**, Romyasamit C. (2025) Lyophilized Cell-Free Supernatants of *Lactocaseibacillus paracasei* T0901 Isolated from Fermented Palm Sap Exhibit Antiacne and Antimelanogenic Activities in B16F10 Melanoma Cells. *Life*, 15(12):1866. [PMID : 41465805](#)

- 6- Davakan A., Cmarko L., Ribeiro Oliveira-Mendes B., Bernat C., Boulali N., Montnach J., Vallee S.E., Burglen L., Cantagrel V., Weiss N., Nicole S., **Monteil A.**, De Waard M., Lory P. (2025) Electrophysiological classification of *CACNA1G* gene variants associated with

neurodevelopmental and neurological disorders. *Frontiers in Pharmacology*, 2025 Oct 2;16:1613072. doi: 10.3389/fphar.2025.1613072. eCollection 2025. [PMID: 41111510](#)

- 7- Sayehmiri F., Ilkhanizadeh-Qomi M., Naderi N., **Monteil A.**, Sayyah M., Hasanzadeh L., Golkar M., Gholamipour Badie H. (2025) Cannabidiol Enhances Stress-Induced Cellular Damage: Potential Contribution of Kv2.1 Inhibition. *J Mol Neurosci*, 75: 107. [PMID : 40813741](#)
- 8- Senatore A., Mayorova T., Yanez-Guerra L., Elkhatib W., Bejoy B., Lory P., and **Monteil A.** (2025) NALCN/Cch1 channelosome subunits originated in early eukaryotes and a full complement is found in select animals, fungi, and apusomonads. *J Gen Physiol*, Nov 3;157(6):e202413636. doi: 10.1085/jgp.202413636. [PMID : 40910942](#)

This is a phylogenetic study tracing the evolution of the NALCN canal complex in different species.

- 9- Clua Provost C., Greetham L., Monzo C., **Monteil A.**, Rovelet-Lecrux A., Lehmann S., Wallon D., Garcia V., Hirbec H., Nivet E. *et al* (2025) Generation of two isogenic-corrected control cell lines (IRMBi001-A-1; IRMBi001-A-2) from Autosomal dominant Alzheimer's disease patient-derived iPSCs carrying a G217D mutation in presenilin 1 gene. *Stem Cell Res* 87: 103780. [PMID : 40701115](#)
- 10- Parra-Díaz P., **Monteil A.**, Del Pino Pariente I., Calame D., Hadouiri N., Thauvin-Robinet C., Soliani L., Spinelli E., Jabbour Caron E., Dieterich K., Kritzer A., Riley K., Tanner J., Tevissen H., Vera-Medialdea R., Watzl S., Beltrán-Corbellini A., García Morales I., Sánchez Miranda-Román I., Toledano R., Valls A., Gil-Nagel A. (2025) Genotype-phenotype landscape of NALCN and UNC80-related disorders. *Neurology*, Apr 8;104(7):e213429. doi: 10.1212/WNL.0000000000213429. [PMID : 40137026](#).

This article presents the results of the first in-depth phenotyping study of a large cohort of patients with NALCN- and UNC80-related disorders.

- 11- Belal M., Mucha M., **Monteil A.**, Winyard P.G., Pawlak R., Walker J.J., Tabak J., Belle M.D.C. (2025) The sodium leak channel NALCN encodes the major background sodium ion conductance in mouse anterior pituitary cells. *J Physiol.*, Jan;603(2):301-317. doi: 10.1113/JP284036. [PMID : 39620829](#)

This article extends our results published in Impheng et al, FASEB J., 2021 to primary mouse anterior pituitary cells

- *Perspective in: Shipston M.J. Getting excited about leaks: the atypical Na⁺ channel NALCN is a key determinant of native mouse anterior pituitary endocrine cell physiology. J Physiol., 2025 Jan;603(2):241-242. doi: 10.1113/JP288021.*

- 12- Mesirca P., Chemin J., Barrère C., Torre E., Gallot L., **Monteil A.**, Bidaud I., Diochot S., Lazdunski M., Soong T.W., Barrere-Lemaire S., Mangoni M.E., Nargeot J. (2024) Selective blockade of Cav1.2 (α1C) versus Cav1.3 (α1D) L-type calcium channels by the black mamba toxin calciseptine. *Nat Commun.* Jan 2;15(1):54. doi: 10.1038/s41467-023-43502-w. [PMID : 38167790](#)

- 13- Folcher A., Gordienko D., Iamshanova O., Bokhobza A., Shapovalov G., Kannancheri-Puthooru D., Mariot P., Allart L., Desruelles E., Spriet C., Diez R., Oullier T., Marionneau-Lambot S., Brisson L., Geraci S., Impheng H., Lehen'kyi V., Haustrate A., Mihalache A., Gosset P., Chadet S., Retif S., Laube M., Sobilo J., Lerondel S., Villari G., Serini G., Pla A.F., Roger S., Fromont-Hankard G., Djamgoz M., Clezardin P., **Monteil A.**, Prevarskaya N. (2023) NALCN-mediated sodium influx confers metastatic prostate cancer cell invasiveness. *EMBO J.* Jun 6:e112198. doi: 10.15252/embj.2022112198. [PMID : 37278161](#)

This article describes for the first time the neuronal NALCN ion channel plays a major role in prostate cancer cell invasiveness.

➤ *News & Views in: Stejerean-Todoran I., Bogeski I. Malignant currents: sodium leak channel NALCN propels prostate cancer aggressiveness. EMBO J. 2023 Aug 28;e114986.*

14- Kumar P., Courtes M., Lemmers C., Le Digarcher A., Coku I., **Monteil A.**, Hong C., Varraut A., Liu R., Wang L., Bouschet T. (2023) Functional mapping of microRNA promoters with dCas9 fused to transcriptional regulators. *Front Genet.* May 5;**14**:1147222. [PMID : 37214422](#)

15- Sattayakhom A., Kalarat K., Rakmak T., Tapechum S., **Monteil A.**, Punsawad C., Palipoch S., Koomhin P. (2022) Effects of Ceftriaxone on Oxidative Stress and Inflammation in a Rat Model of Chronic Cerebral Hypoperfusion. *Behav Sci (Basel).* Aug 14;**12**(8):287. doi: 10.3390/bs12080287. [PMID : 36004858](#)

16- Doray A., Lemoine R., Severin M., Chadet S., Lopez-Charcas O., Héraud A., Baron C., Besson P., **Monteil A.**, Pedersen S.F., Roger S. (2021) The Voltage-Gated Sodium Channel Beta4 Subunit Maintains Epithelial Phenotype in Mammary Cells. *Cells* 10, 1624. [PMID : 34209614](#)

17- Impheng H., Lemmers C., Bouasse M., Legros C., Pakaprot N., Guérineau N.C., Lory P., **Monteil A.** (2021) The sodium leak channel NALCN regulates cell excitability of pituitary endocrine cells. *FASEB J.* **35**(5): e21400. doi: 10.1096/fj.202000841RR. [PMID : 33793981](#)

This article describes for the first time the neuronal NALCN ion channel is a key player of excitability and physiology of anterior pituitary cells.

18- Milman A., Ventéo S., Bossu J.L., Fontanaud P., **Monteil A.**, Lory P., Guérineau N.C. (2021) A sodium background conductance controls the spiking pattern of mouse adrenal chromaffin cells in situ. *J Physiol.* Jan 15. doi: 10.1113/JP281044. [PMID : 33450050](#)

This article describes for the first time the neuronal NALCN ion channel could be involved in excitability and physiology of chromaffin cells in the adrenal gland.

➤ *Perspective in: Tuluc P. Exciting leak: Na⁺ background current makes chromaffin cells burst. J. Physiol. 2021 Mar;599(6):1727-1728.*

19- Bouasse M., Impheng H., Servant Z., Lory P., **Monteil A.** (2019) Functional expression of CLIFAHDD and IHPRF pathogenic variants of the NALCN channel in neuronal cells reveals both gain- and loss-of-function properties. *Sci Rep.* Aug 13;**9**(1):11791. doi: 10.1038/s41598-019-48071-x.

This article describes for the first time that de novo variants of the neuronal NALCN ion channel exhibit gain-of-function properties

20- Wichit S., Hamel R., Yainoy S., Gumpangseth N., Panich S., Phuadraksa T., Saetear P., **Monteil A.**, Morales Vargas R., Missé D. (2019) Interferon-inducible protein (IFI) 16 regulates Chikungunya and Zika virus infection in human skin fibroblasts. *EXCLI J.* Jun 27;**18**:467-476. doi: 10.17179/excli2019-1271. eCollection 2019.

21- Candelas M., Reynders A., Arango-Lievano M., Neumayer C., Fruquière A., Demes E., Hamid J., Lemmers C., Bernat C., **Monteil A.**, Compan V., Laffray S., Inquimbert P., Le Feuvre Y., Zamponi G.W., Moqrich A., Bourinet E., Méry P.F. (2019) Cav3.2 T-type calcium channels shape electrical firing in mouse Lamina II neurons. *Sci Rep.* Feb 28;**9**(1):3112. doi: 10.1038/s41598-019-39703-3.

22- Chemin J., Taiakina V., **Monteil A.**, Piazza M., Guan W., Stephens R.F., Kitmitto A., Pang Z.P., Dolphin A.C., Perez-Reyes E., Dieckmann T., Guillemette J.G., Spafford J.D. (2017) Calmodulin regulates Cav3 T-type channels at their gating brake. *J Biol Chem.* Sep 25. pii: jbc.M117.807925. doi: 10.1074/jbc.M117.807925.

23- Coutelier M., Blesneac I., **Monteil A.**, Monin M.L., Ando K., Mundwiller E., Brusco A., Le Ber I., Anheim M., Castrioto A., Duyckaerts C., Brice A., Durr A., Lory P., Stevanin G. (2015) A

Recurrent Mutation in CACNA1G Alters Cav3.1 T-Type Calcium-Channel Conduction and Causes Autosomal-Dominant Cerebellar Ataxia. *Am J Hum Genet*

- 24- **Monteil A.**, Chausson P., Boutourlinsky K., Mezghrani A., Huc-Brandt S., Blesneac I., Bidaud I., Lemmers C., Leresche N., Lambert R.C., Lory P. (2015) Inhibition of Cav3.2 T-type calcium channels by its intracellular I-II loop. *J Biol Chem.* Apr 30. **290**(26):16168-76.
 - 25- Chong J.X., McMillin M.J., Shively K.M., Beck A.E., Marvin C.T., Armenteros J.R., Buckingham K.J., Nkinsi N.T., Boyle E.A., Berry M.N., Bocian M., Foulds N., Uzielli M.L., Haldeman-Englert C., Hennekam R.C., Kaplan P., Kline A.D., Mercer C.L., Nowaczyk M.J., Wassink-Ruiter J.S., McPherson E.W., Moreno R.A., Scheuerle A.E., Shashi V., Stevens C.A., Carey J.C., **Monteil A.**, Lory P., Tabor H.K., Smith J.D., Shendure J., Nickerson D.A.; University of Washington Center for Mendelian Genomics, Bamshad M.J. (2015) De Novo Mutations in NALCN Cause a Syndrome Characterized by Congenital Contractures of the Limbs and Face, Hypotonia, and Developmental Delay. *Am J Hum Genet.* 96(3):462-73.
- This article describes for the first time a cohort of patients with de novo variants of the neuronal NALCN ion channel*
- 26- Boone A.N., Senatore A., Chemin J., **Monteil A.**, Spafford J.D. (2014) Gd3+ and calcium sensitive, sodium leak currents are features of weak membrane-glass seals in patch clamp recordings. *PLoS one* **9**: e98808
 - 27- Senatore A, **Monteil A.**, van Minnen J., Smit A.B., Spafford J.D. (2013) NALCN Ion Channels Have Alternative Selectivity Filters Resembling Calcium Channels or Sodium Channels. *PLoS one* **8**: e55088
 - 28- Weiss N., Hameed S., Fernandez-Fernandez J.M., Fablet K., Karmazinova M., Poillot C., Proft J., Chen L., Bidaud I., **Monteil A.**, Huc-Brandt S., Lacinova L., Lory P., Zamponi G.W., De Waard M. (2012) A Ca(v)3.2/syntaxin-1 signaling complex controls T-type channel activity and low-threshold exocytosis. *J Biol Chem* **287**(4): 2810-2818
 - 29- Swayne, L.A., Mezghrani A., Varrault A., Chemin J., Bertrand G., Dalle S., Bourinet E., Lory P., Miller R.J., Nargeot J., **Monteil, A.** (2009) The NALCN ion channel is activated by M3 muscarinic receptors in a pancreatic beta-cell line. *EMBO Rep*, **10**, 873-880.
- *Literature Report in: Gilon P., Rorsman P. **NALCN**: a regulated leak channel. EMBO Rep. 2009 Sep;10(9):963-4.*
- 30- Mezghrani, A.*, **Monteil, A.***, Watschinger, K., Sinnegger-Brauns, M.J., Barrere, C., Bourinet, E., Nargeot, J., Striessnig, J. and Lory, P. (2008) A destructive interaction mechanism accounts for dominant-negative effects of misfolded mutants of voltage-gated calcium channels. *J Neurosci*, **28**, 4501-4511.
 - 31- Granier, S., Jean-Alphonse, F., Bacqueville, D., **Monteil, A.**, Pascal, R., Poncet, J., Guillon, G., Boudier, L., Arcemisbehre, L., Mouillac, B., Bellot, G., Demene, H. and Mendre, C. (2008) The multifunctional protein GC1q-R interacts specifically with the i3 loop arginine cluster of the vasopressin V2 receptor. *Regul Pept*, **148**, 76-87.
 - 32- Singh, B., **Monteil, A.**, Bidaud, I., Sugimoto, Y., Suzuki, T., Hamano, S., Oguni, H., Osawa, M., Alonso, M.E., Delgado-Escueta, A.V., Inoue, Y., Yasui-Furukori, N., Kaneko, S., Lory, P. and Yamakawa, K. (2007) Mutational analysis of CACNA1G in idiopathic generalized epilepsy. Mutation in brief #962. Online. *Hum Mutat*, **28**, 524-525.
 - 33- Fang, Z., Park, C.K., Li, H.Y., Kim, H.Y., Park, S.H., Jung, S.J., Kim, J.S., **Monteil, A.**, Oh, S.B. and Miller, R.J. (2007) Molecular basis of Ca(v)2.3 calcium channels in rat nociceptive neurons. *J Biol Chem*, **282**, 4757-4764.

- 34- Hamid, J., Peloquin, J.B., **Monteil, A.** and Zamponi, G.W. (2006) Determinants of the differential gating properties of Cav3.1 and Cav3.3 T-type channels: a role of domain IV? *Neuroscience*, **143**, 717-728.
- 35- Bidaud, I., **Monteil, A.**, Nargeot, J. and Lory, P. (2006) Properties and role of voltage-dependent calcium channels during mouse skeletal muscle differentiation. *J Muscle Res Cell Motil*, **27**, 75-81.
- 36- Bourinet, E., Alloui, A., **Monteil, A.**, Barrere, C., Couette, B., Poirot, O., Pages, A., McRory, J., Snutch, T.P., Eschalier, A. and Nargeot, J. (2005) Silencing of the Cav3.2 T-type calcium channel gene in sensory neurons demonstrates its major role in nociception. *Embo J*, **24**, 315-324.
- 37- Berthier, C., **Monteil, A.**, Lory, P. and Strube, C. (2002) Alpha(1H) mRNA in single skeletal muscle fibres accounts for T-type calcium current transient expression during fetal development in mice. *J Physiol*, **539**, 681-691.
- 38- Chemin, J., **Monteil, A.**, Perez-Reyes, E., Bourinet, E., Nargeot, J. and Lory, P. (2002) Specific contribution of human T-type calcium channel isoforms (alpha(1G), alpha(1H) and alpha(1I)) to neuronal excitability. *J Physiol*, **540**, 3-14.
- 39- Chemin, J., **Monteil, A.**, Bourinet, E., Nargeot, J. and Lory, P. (2001) Alternatively spliced alpha(1G) (Ca(V)3.1) intracellular loops promote specific T-type Ca(2+) channel gating properties. *Biophys J*, **80**, 1238-1250.
- 40- Chemin, J., **Monteil, A.**, Perez-Reyes, E., Nargeot, J. and Lory, P. (2001) Direct inhibition of T-type calcium channels by the endogenous cannabinoid anandamide. *Embo J*, **20**, 7033-7040.
- 41- Chemin, J., **Monteil, A.**, Dubel, S., Nargeot, J. and Lory, P. (2001) The alpha1I T-type calcium channel exhibits faster gating properties when overexpressed in neuroblastoma/glioma NG 108-15 cells. *Eur J Neurosci*, **14**, 1678-1686.
- 42- Chemin, J., **Monteil, A.**, Briquaire, C., Richard, S., Perez-Reyes, E., Nargeot, J. and Lory, P. (2000) Overexpression of T-type calcium channels in HEK-293 cells increases intracellular calcium without affecting cellular proliferation. *FEBS Lett*, **478**, 166-172.
- 43- Leuranguer, V., **Monteil, A.**, Bourinet, E., Dayanithi, G. and Nargeot, J. (2000) T-type calcium currents in rat cardiomyocytes during postnatal development: contribution to hormone secretion. *Am J Physiol Heart Circ Physiol*, **279**, H2540-2548.
- 44- **Monteil, A.**, Chemin, J., Bourinet, E., Mennessier, G., Lory, P. and Nargeot, J. (2000) Molecular and functional properties of the human alpha(1G) subunit that forms T-type calcium channels. *J Biol Chem*, **275**, 6090-6100.
- 45- **Monteil, A.**, Chemin, J., Leuranguer, V., Altier, C., Mennessier, G., Bourinet, E., Lory, P. and Nargeot, J. (2000) Specific properties of T-type calcium channels generated by the human alpha 1I subunit. *J Biol Chem*, **275**, 16530-16535.
- 46- Bourinet, E., Soong, T.W., Sutton, K., Slaymaker, S., Mathews, E., **Monteil, A.**, Zamponi, G.W., Nargeot, J. and Snutch, T.P. (1999) Splicing of alpha 1A subunit gene generates phenotypic variants of P- and Q-type calcium channels. *Nat Neurosci*, **2**, 407-415.

Not referenced in PubMed:

- 47- Chaicharoen, C., Homchuangsub, O., Thorsuwan, S., Jaikua, W., **Monteil, A.**, Promsuban, C. (2019) Histological study of natural, beta-agonist free, and hygienic pork livers. *Int J Applied Biomedical Engineering*, **12(2)**, 8-15

- 48- Chatree, S., Kongkhwet, N., Inkho, S., Jaisamuta, S., **Monteil, A.**, Promsuban, C. (2023) Revealing of stomach histology of beta-agonist free, hygienic, and natural swine. *Cogent Food & Agriculture*, **9**: 2208248

Reviews:

- 1- Boondam Y., Saefoong C., Niltup N., **Monteil A.**, Kitphati W. (2024) The cognitive restoration effects of resveratrol: insight molecular through behavioral studies in various cognitive impairment models. *ACS Pharmacol. Transl. Sc.*, 7(11):3334-3357. doi: 10.1021/acsptsci.4c00373. [PMID : 39539271](#)
- 2- **Monteil, A.**[€], Guérineau N.C., Gil-Nagel A., Parra-Diaz P., Lory P., Senatore A. (2024) New insights into the physiology and pathophysiology of the atypical sodium leak channel NALCN. *Physiological Reviews*, Jan 1;104(1):399-472. doi: 10.1152/physrev.00014.2022. Epub 2023 Aug 24. [PMID : 37615954](#)

This invited review provides an extensive review on the NALCN ion in physiology and disease. Physiological reviews is the most prestigious journal in the field 2022 Impact Factor: 33.6 (#1 in Physiology); 2022 5-Year Impact Factor: 49.4

➤ *Invited Review by the American Physiological Society*

- 3- Saba Villarroel, P.M., Gumpangseth, N., Songhong, T., Yainoy, S., **Monteil, A.**, Leungwutiwong, P., Missé, D., Wichit, S. (2023) Emerging and Re-emerging Zoonotic Viral Diseases in Southeast Asia: One Health Challenge. *Front Public Health*, Jun 13;11:1141483. doi: 10.3389/fpubh.2023.1141483. eCollection 2023. [PMID : 37383270](#)
- 4- Guérineau N.C., **Monteil A.**, Lory P. (2021) Sodium background currents in endocrine/neuroendocrine cells: towards unraveling channel identity and contribution in hormone secretion. *Front Neuroendocrinol.* Sep 27:100947. doi: 10.1016/j.yfrne.2021.100947. [PMID : 34592201](#)
- 5- Lory P., Nicole S., **Monteil A.** (2020) Neuronal Cav3 channelopathies: recent progress and perspectives. *Pflugers Arch.* 2020 Jul 7. doi: 10.1007/s00424-020-02429-7.
- 6- Cochet-Bissuel M., Lory P., **Monteil A.**[€] (2014) The sodium leak channel, NALCN, in health and disease. *Frontiers in cellular neuroscience* **8**: 132.
- 7- Swayne, L.A., Mezghrani, A., Lory, P., Nargeot, J., **Monteil, A.** (2010) The NALCN ion channel is a new actor in pancreatic β -cell physiology. *Islets*, **2**, 53-56.
- 8- Huc, S., **Monteil, A.**, Bidaud, I., Barbara, G., Chemin, J. and Lory, P. (2009) Regulation of T-type calcium channels: signalling pathways and functional implications. *Biochim Biophys Acta*, **1793**, 947-952.
- 9- Snutch, T.P. and **Monteil, A.** (2007) The sodium "leak" has finally been plugged. *Neuron*, **54**, 505-507.
- 10- Lory, P., Bidaud, I., Mezghrani, A. and **Monteil, A.** (2006) [Calcium channelopathies: the current challenges]. *Med Sci (Paris)*, **22**, 1028-1031.
- 11- Bidaud, I., Mezghrani, A., Swayne, L.A., **Monteil, A.** and Lory, P. (2006) Voltage-gated calcium channels in genetic diseases. *Biochim Biophys Acta*, **1763**, 1169-1174.
- 12- Chemin, J., **Monteil, A.** and Lory, P. (2003) [Functional specificity of T-type calcium channels and their roles in neuronal differentiation]. *J Soc Biol*, **197**, 235-247.
- 13- Lory, P., **Monteil, A.**, Chemin, J., Leuranguer, V., Bourinet, E. and Nargeot, J. (2000) [Molecular diversity of calcium channel activities by depolarization]. *Thérapie*, **55**, 249-254.

- 14- Lory, P. and **Monteil, A.** (1998) [Physiopathology of calcium channels: identification of calcium channelopathies]. *C R Seances Soc Biol Fil*, **192**, 137-147.
- 15- Lory, P., **Monteil, A.** and Nargeot, J. (1997) [Molecular genetics of cardiovascular calcium channels]. *Arch Mal Coeur Vaiss*, **90 Spec No 3**, 17-24.

Book Chapters:

- 1- Le Digarcher A., Lemmers C., **Monteil A.**, Hong C., Varrault A., Bouchet T., A CRISPR/Cas9-based toolkit to test gain and loss of gene function in brain organoids (2022). *Neuromethods*, *in press*.
- 2- Bourinet E., Lory P., Chemin J., Dubel S., Lambert R., Poirot O., **Monteil A.**, Feltz A., Nargeot J. (2003). Post-Genomic insights into T-Type calcium channels functions in neurons. *In Voltage-gated calcium channels; Zamponi G. ed Eurekah Press*
- 3- Nargeot, J., **Monteil, A.**, Chemin, J., Leuranguer, V., Altier, C., Bourinet, E., and Lory, P. (2001). Functional and molecular diversity of low-voltage-activated calcium channels in cardiac cells. *In Calcium signaling ; Morad M. & Kostyuk P. eds IOS Press* 98-109

D. Invited conferences & Teaching:

- 1- "Viral Vectors". INSERM U641 – Faculté de Médecine Secteur Nord – Marseille – France – February 9th, 2007
- 2- "NALCN: an atypical ion channel". 31st European Winter Conference on Brain Research – Les Deux Alpes – France – March 12th, 2011
- 3- « NALCN: an atypical ion channel ». Mahidol University – Nakhon Pathom – Thailand – April 4th, 2013
- 4- « Towards functional studies of NALCN channels » – ICST Labex Meeting – Montpellier – France – November 30th, 2015
- 5- « Towards functional studies of NALCN channels » - 4th International Calcium Channel Conference – Hoi An – Vietnam – October 2nd, 2016
- 6- « Étude des canaux ioniques: intérêts pour la physiopathologie et le traitement des troubles de la motricité » - Cours International « Médecine Génomique : du diagnostique à la thérapie » – Tunis –Tunisie – October 17th, 2016
- 7- « Ion Channels & Genetic Diseases », Walailak University, Thailand – June 2017
- 8- « Methods for Gene Transfer», Walailak University, Thailand – June 2017
- 9- "Setting up recombinant systems to investigate functional and pharmacological properties of the sodium leak channel NALCN" – ICST Labex Meeting – Lille –France – November 28th – December 1st, 2017
- 10- « Methods for Gene Transfer», Walailak University – Thailand – July 2018
- 11- Visiting Professor à Mahidol University, Thailand – December 05th-23rd, 2019 (Organization of a workshop entitled « Genome editing & Gene transfer methods »)
- 12- « Genome editing & Gene transfer methods » - Department of Physiology, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand – 09/12/2019
- 13- « NALCN in physiology and disease» - Department of Physiology, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand – 13/12/2019

- 14- « Genome editing & Gene transfer methods » - Department of Clinical Microbiology and Applied Technology, Faculty of Medical Technology, Mahidol University, Nakhon Pathom, Thailand – 17/12/2019
- 15- « Setting up a functional assay to search for modulators of neuronal sodium leak channels (NALCN) » - 5th International Calcium Channel Conference – Penang – Malaysia – March 31st-April 5th, 2019
- 16- « Modeling human mutations of the Sodium Leak Channel (NALCN) *in vitro* and *in vivo* » - Journée Recherche Maladies Rares – Montpellier –France – June 11th, 2019
- 17- « NALCN in physiology and disease » - 30th « Ion Channels » meeting – Sète – France – September 8th-11th, 2019
- 18- « NALCN in physiology and disease » - Transplantation, Immunologie et Inflammation T2I-EA 4245, Université de Tours, 37044 Tours, France – July 8th, 2021
- 19- « NALCN in physiology and disease» - University of Exeter – Exeter - UK – September 23th, 2021 (Visioconference).
- 20- « Genome editing & Gene transfer methods » - Department of Physiology, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand – November 29th, 2021
- 21- « NALCN in physiology and disease» - Department of Physiology, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand – November 30th, 2021
- 22- « Viral Vectors and Gene Transfer » Mahidol University Viral Vector Research Network Meeting in collaboration with the French Embassy in Thailand, Mahidol University, Nakhon Pathom, Thailand – December 14th, 2021
- 23- « Genome Editing Approaches for the Modulation of Gene Expression » Mahidol University Viral Vector Research Network Meeting in collaboration with the French Embassy in Thailand, Mahidol University, Nakhon Pathom, Thailand – December 14th, 2021
- 24- « Ion Channels as drug targets, drug discovery methodologies », Walailak University, Thailand – September 29th, 2022 (Videoconference).
- 25- « Ion Channels as drug targets, drug discovery methodologies » - Department of Physiology, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand – November 25th, 2022
- 26- « Viral Vectors and Genome Editing » - Department of Preclinical Sciences, Faculty of Medicine, Thammasat University, Bangkok, Thailand – December 14th, 2022
- 27- « Viral Vectors and Genome Editing: Overview » - School of Allied Health Sciences, Walailak University, Bangkok, Thailand – December 16th, 2022
- 28- « NALCN in physiology and disease » - Laboratory of Pharmacology and Research Center for Cellular and Molecular Neurobiology, University of Liège, Liège, Belgium – April 6th, 2023

- 29- « Viral Vectors and Gene Transfer: Overview » - 1st Franco-Thai symposium on Viral vectors for Gene Transfer & Genome Editing, Mahidol University, Nakhon Pathom, Thailand – April 18th, 2023
- 30- « NALCN in physiology and disease » - 1st NALCN workshop (<https://www.nalcn2023.org/>), Alicante, Spain – September 1st, 2023
- 31- « Methods for Gene Transfer & Genome Editing » - School of Veterinary Medicine, Rakuno Gakuen University, Japan – November 1st, 2023
- 32- « Sodium Channels, Cell Excitability, Physiology and Diseases » - Department of Physiology, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand – November 10th, 2023
- 33- « Adeno-Associated Virus, Gene transfer & Genome Editing » - 2nd Franco-Thai symposium on Viral vectors for Gene Transfer & Genome Editing, Mahidol University, Nakhon Pathom, Thailand – April 22nd, 2024
- 34- « Na⁺ Leak Channels, Cell Excitability, Physiology & Diseases » - Department of Physiology, Faculty of Pharmacy, Mahidol University, Bangkok, Thailand – May 3rd, 2024
- 35- « New insights into the Physiology and Pathophysiology of the atypical Sodium leak channel NALCN » - International Conference on Neuroscience and Brain Health 2024 & 27th Annual Conference of the Thai Neuroscience Society, Hua Hin, Thailand – May 10th, 2024
- 36- « New insights into the Physiology and Pathophysiology of the atypical Sodium leak channel NALCN » - Laboratory of Anesthesia and Critical Care Medicine, National-Local Joint Engineering Research Centre of Translational Medicine of Anesthesiology, West China Hospital Sichuan University, Chengdu, China – May 16th, 2024
- 37- « New insights into the Physiology and Pathophysiology of the atypical Sodium leak channel NALCN » - 2024 International Academic Week of West China Hospital on Perioperative Medicine/The West China Anesthesiology Frontier Forum, JinJiang Hotel, Chengdu, China – May 18th, 2024
- 38- « New insights into the Physiology and Pathophysiology of the atypical Sodium leak channel NALCN » – ICST Labex Meeting – Genova – Italy – October 22nd, 2024
- 39- « Drug Screening Assays to find Ion Channels modulators » - Faculty of Medical Technology, Mahidol University, Nakhon Pathom, Thailand – November 11th, 2024
- 40- « The NALCN ion channel in cell excitability, physiology & disease » - Faculty of Medicine, Thammasat University, Bangkok, Thailand – November 18th, 2024
- 41- « Genome editing approaches for the modulation of gene expression » - Faculty of Graduate Studies, Mahidol University, Nakhon Pathom, Thailand – November 25th, 2024
- 42- « Drug Screening Assays to find Ion Channels modulators » - Department of Physiology, Faculty of Pharmacy, Mahidol University, Bangkok, Thailand – November 28th, 2024

- 43- « Viral vectors for gene transfer » - Department of Physiology, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand – November 29th, 2024
- 44- « The NALCN ion channel in cell excitability, physiology & disease » - School of Dentistry, Seoul National University, Seoul, Republic of Korea – December 2nd, 2024
- 45- « The NALCN ion channel in cell excitability, physiology & disease » - Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand – December 9th, 2024
- 46- « Retrovirus/Lentivirus for Gene Transfer: an overview » - 3rd Workshop on Viral vectors for Gene Transfer & Genome Editing, Mahidol University, Nakhon Pathom, Thailand – April 26th, 2025
- 47- « The NALCN Sodium Leak channel in Health & disease » - Tzu Shi University, Hualien, Taiwan – May 8th, 2025
- 48- « The NALCN Sodium Leak channel in Health & disease » - Academia Sinica, Taipei, Taiwan – May 9th, 2025
- 49- « Viral Vectors & Gene Transfer: Overview » - Walailak University, Nakhon Si Thammarat, Thailand – May 14th, 2025
- 50- « The NALCN Sodium Leak channel in Health & disease » - Walailak University, Nakhon Si Thammarat, Thailand – May 15th, 2025
- 51- « The NALCN Sodium Leak channel in health & disease » - 2nd NALCN Channel & Related Diseases International Conference, San Antonio, Texas, USA – October 10th-12th, 2025
- 52- « Paving the Path to Therapies for Genetic Disases linked to the NALCN channelosome » - 28th Annual Conference of Thai Neuroscience Society (TNS28), October 29th-31st, 2025 – Chiang Mai, Thailand.
- 53- « Channelopathies in the Brain: From Ion Channels to Clinical Syndromes » - Winter School on Neuroplasticity Across the Lifespan, Chiang Mai University, Chiang Mai, Thailand, October 27th –Nov 2nd
- 54- « Fundamentals of viral vectors for gene therapy/Adeno-associated & Lentiviral vectors: Production and Applications as advanced therapy medicinal products » - Workshop on Biopharmaceutical Manufacturing: Plasmids as Starting Materials for advanced therapy medicinal products, Chulalongkorn University, Bangkok, Thailand, November 3rd-4th, 2025.
- 55- « *De novo* variants of *NALCN* differentially impact both the phenotypic spectrum of patients and the biophysical properties of the NALCN current » - Channelopathies in Focus – Marrakech Edition, Marrakech, Morocco, March 25th-29th, 2026.
- 56- « Paving the way toward therapies for neurodevelopmental disorders linked to NALCN dysfunction » - Chakri Naruebodindra Medical Institute, Mahidol University – Thailand, April 28th, 2026

57- « Viral Vectors & Gene Transfer: Overview », AAV & Lentiviral Vectors Masterclass: « From Theory to Practice » - Mahidol University – Thailand, May 18th-22nd, 2026

58- « Technologies for Genome Editing » - Chiang Mai University – Thailand, August 5th, 2026

59- « Paving the way toward therapies for neurodevelopmental disorders linked to NALCN dysfunction » - Chiang Mai University – Thailand, August 7th, 2026

E. Expert activities:

Région Picardie	2008, 2011, 2012, 2013, 2014a,b, 2015a,b, 2016
INSERM competition IR2 BAP A	2009
Journal of Neuroscience	2010
British Journal of Pharmacology	2010, 2019
PlosOne	2010, 2012, 2015, 2018
Acta Diabetologica	2011
Molecular Neurobiology	2011, 2021
Romanian National Council for Scientific Research	2012
Fond de Dotation pour la Recherche en Santé Respiratoire	2012, 2015, 2017
MCU competition #1236 (GALAXIE 4168), CNU section 66	2013
Fonds Wetenschappelijk Onderzoek – Vlaanderen (FWO)	2013, 2014, 2016
Human Mutation	2015
Febs Letters	2015
National Research Foundation of Korea (NRF)	2015
Ligue Nationale contre le Cancer	2015, 2016, 2017
Channels	2015, 2019, 2023, 2024
Association pour la recherche sur les tumeurs de la prostate	2016
Foreign expert – Thesis jury of Raphaël Cruzen Université Libre de Bruxelles - Belgium	2016
Clinical Genetics	2016, 2023
Pediatrics	2017
American Journal of Medical Genetics	2017, 2019, 2020
Referee – Thesis jury of Okasana Iamshanova University of Lille - France	2017
Human Genetics	2018, 2026
Molecular Medicine	2018, 2020
BMC Research Notes	2019

iScience	2019
Nature communications	2019
Science Advances	2019
Journal of Pediatric Genetics	2019
Ono Pharmaceuticals Co., LTD.	2019
The Application of Clinical Genetics	2020
Région Nouvelle Aquitaine	2020
Referee – Thesis jury of Lucile Poisson University of Tours - France	2020
Frontiers in Cellular Neuroscience	2020, 2021, 2025
Nature	2021
Executive Agency for Higher Education, Research, Development and Innovation Funding (UEFISCDI) – Roumanie	2021
Brain Behavior and Immunity	2022
Referee – Thesis jury of Claudia Weidling University of Copenhagen - Denmark	2017
Expert – Thesis jury of Antoine Folcher University of Lille - France	2023
Anesthesiology	2023
Latvian Council of Science	2024, 2026
Frontiers in Pediatrics	2024a,b
Invited member – Thesis jury of Dheeraj Kannancheri Putooru University of Lille – France	2025
Science	2025
Genes	2025
IBrain	2025
Chair – Thesis jury of Nuttamonpat Gumpangseth Mahidol University - Thailand	2025

F. Supervisory activity:

September 2003-July 2004 :	Aurélie Le Feuvre DEA d'Endocrinologie cellulaire et moléculaire – University of Montpellier
May 2005 :	Karine Lassailly

	Cégep Saint-Jean-Sur-Richelieu, Canada
September 2006-December 2008:	Leigh Anne Swayne Postdoctoral fellow
February 2007-May 2007:	Silviya Hristova Master 1 Biologie Santé – University of Montpellier
May 2007:	Julie Huard Cégep Saint-Jean-Sur-Richelieu, Canada
June 2007-August 2007:	Lauren Hiribarne Elève Ingénieur a l'École Nationale Supérieure De Chimie de Montpellier
April 2009-May 2009:	Marie-Claude Guénet Cégep Saint-Jean-Sur-Richelieu, Canada
April 2010-May 2010:	Marie-Jacinthe Plouffe Cégep Saint-Jean-Sur-Richelieu, Canada
January 2010-December 2011:	Samer Khoury Hanna CDD AI CNRS
January 2011-April 2011:	Adriano Senatore PhD student under the supervision of D. Spafford (Université de Waterloo, Canada)
April 2011-May 2011:	Vicky Labrie Cégep Saint-Jean-Sur-Richelieu, Canada
April 2011-May 2011:	Manon Carmona I.U.T. Génie Biologique de Montpellier
January 2012-March 2012:	Jessica Chupin B.T.S. Biotechnologie de Montpellier
February 2012-February 2015:	Maud Cochet Postdoctoral fellow
April 2012-May 2012 :	Alexandra Santana Cégep Saint-Jean-Sur-Richelieu, Canada
June 2012-March 2013:	Sophie Vivier CDD AI CNRS
October 2012-April 2013:	Hamid Gholamipour-Badie PhD student under the supervision of F. Motamedi (Shahid Beheshti University of Medical Sciences, Iran)
February 2013-July 2013:	Sandrine Soro-Roux M2P Vectorologie, Thérapie Génique et Vaccinologie (Université Paul Sabatier, Toulouse)
October 2013-December 2013:	Charkryia Promsuban PhD student under the supervision of N. Pakaprot (Mahidol University, Bangkok, Thailand)
April 2014-May 2014:	Adeline Rames I.U.T. Génie Biologique de Montpellier

May 2014:	Charles Van Kessel Cégep Saint-Jean-Sur-Richelieu, Canada
March 2014-September 2017:	Malik Bouasse PhD student – University of Montpellier
October 2014-December 2014:	Yingrak Boondam PhD student under the supervision of N. Pakaprot (Mahidol University, Bangkok, Thailand)
January 2015-July 2015:	Ludivine Bernard CDD AI CNRS
March 2015- April 2015:	Marie Sangamayya Master 1 Biologie Santé – University of Montpellier
June 2015-October 2015:	Phanit Koomhin Postdoctoral fellow (Granted by the French Embassy in Thailand)
February 2016-July 2016:	Zeinab Mehsein M2 Neuroscience – University of Montpellier
April 2016-May 2016:	Valentin Garcia I.U.T. Génie Biologique de Montpellier
November 2016-October 2017:	Andie Godo CDD AI CNRS
November 2016-October 2020:	Hathaichanok Impheng PhD student – University of Montpellier co-funding Naresuan University-Campus France)
October 2016-March 2016:	Claire Bernat CDD AI CNRS
May 2017:	Annick Granpré Cégep Saint-Jean-Sur-Richelieu, Canada
January 2018-November 2020:	Zoé Servant CDD AI CNRS
May 2018 :	Mélina Sarlabous Cégep Saint-Jean-Sur-Richelieu, Canada
May 2018-October 2018:	Tipsuda Thongbuakaew Postdoctoral fellow (Granted by the French Embassy in Thailand)
October 2018-November 2018:	Yessine Tlili PhD student under the supervision of R. Ben Khalifa (Institut Pasteur, Tunisie)
May 2019 :	Jessica Horrobin-Tremblay Cégep Saint-Jean-Sur-Richelieu, Canada
May 2019-October 2019:	Auemphon Mordmuang Postdoctoral fellow (Granted by the French Embassy in Thailand)

February 2021-July 2021:	Julien Grelaud M2 Neuroscience – Université de Montpellier
January 2021-Today:	Dherraj KP PhD student – University of Lille (Co-supervision)
October 2021-December 2021:	Wachirapong Saleeon PhD student under the supervision of N. Pakaprot (Mahidol University, Bangkok, Thailand)
January 2022-February 2022:	Sofia Gourbin B.T.S. Biotechnologie de Montpellier
January 2022-June 2022:	Romain Baudat Master 2 Physiologie – Université de Poitiers
September 2022-January 2023	Marion Chevallier Master 1 – Biologie Intégrative et Physiologie – Sorbonne Université, Paris 1-year seizure
September 2022-August 2023	Lidiane Pereira Garcia Postdoctoral fellow (ERA- NET Neuron call 2021)
October 2022-November 2022	Nuttamonpat Gumpangseth PhD student under the supervision of S. Wichit (Mahidol University, Nakhon Pathom, Thailand)
October 2022-December 2025	Kachaporn Jintana PhD student (co-funding Mahidol University-Campus France)
February 2023-June 2023	Sujira Chedsadavitayakul Master 2 student– University of Montpellier (Granted by Campus France)
June 2023-Present	Nattaya Thongsepee Visiting Assistant Professor from Thammasat University (Thailand)
February 2024-Present	Tanya Phamban CDD AI CNRS
October 2024-October 2027	Alexandra Typou PhD student (Granted by the CBS2 Doctoral School)
February 2025-July 2025	Marion Lefèvre Master 2 – University of Montpellier
October 2025-October 2028	Marion Lefèvre PhD student (Granted by the CBS2 Doctoral School) Co-supervision with Guillaume Lebon (IGF)
October 2025-December 2025	Chonticha Romyasamit Visiting Associate Professor (Walailak University, Thailand)
January 2026-December 2026	Nassareen Supaweera PhD student under the supervision of W. Chunglok (Walailak University, Thailand)

March 2026-May 2026

Dolruethai Supungul
PhD student under the supervision of S. Wichit
(Mahidol University, Nakhon Pathom, Thailand)

June 2026-July 2026

Peeraporn Varinthra
Visiting Assistant Professor
(Tzu Shi University, Taiwan)

G. Funding sources:

2007-2008	Programme National de Recherche sur le Diabète de l'INSERM et de l'Association de Recherche sur le Diabète (25k€, PI) : « The NALCN cation channel as a new actor in regulating insulin release from pancreatic beta-cells »
2010-2012	Laboratoires Servier (135k€, co-PI with J. Nargeot)
2010	Scientific Council of the University of Montpellier (15k€, PI): « The NALCN cation channel as a new actor in regulating insulin release from pancreatic beta-cells »
2012-2014	ANR blanche « Betaxcitability » N° ANR 11 BSV1 004 01 (282,791k€, PI). « Metabolism and ion channels: Physiology of the NALCN ion channel in pancreatic β-cells »
2013-2014	Hubert Curien Siam exchange program (24k€, French PI): « Regulation of APP cleavage by the NALCN ion channel »
2014	Fondation Maladies Rares (4k€, PI) : « Modeling infantile neuroaxonal dystrophy, a NALCN channel-related disorder, in Zebrafish »
2016	AFM – Trampoline grant (50k€, PI): « Modeling infantile neuroaxonal dystrophy, a NALCN channel-related disorder, in Zebrafish »
2017-2020	FRM (300k€ - partner, co-PI with P. Lory): « Role of ion channel NALCN in neuronal excitability and complex neurological diseases »
2018	Joint research program CNRS-Université de Toronto (4,9k€ - partner with P. Lory & A. Senatore)
2020-2021	Hubert Curien Siam exchange program (24k€, French PI): « Molecular basis of NALCN-related neuronal excitability defects »
2021	R&D program of the BioCampus UAR (co-PI with C. Crozet) – 6-month salary for a technical assistant (AI)
2021-2022	Hubert Curien Siam exchange program (24k€, French partner): « The host factors of Zika virus neuro-pathogenesis »
2020	PHENOMIN 2020 call (22k€, PI): « Generation of a mouse model for the CLIFAHDD syndrome »
2021-2022	IGF Internal Call (30k€ - Co-PI with X. Bonnefont): « NALCN around the clock »
2022-2026	ERA-NET NEURON (Coordinator, 800k€ including 310k€ for the coordinator): « Accelerating research on neurodevelopmental channelopathies: from bench to bedside »
2022	Blatand program 2022 from the French Institute in Denmark (Travel grant, 1.5k€, PI)
2024-2025	Fondation Maladies Rares (20.5k€, PI): « Discovering new therapies for patients with the CLIFAHDD syndrome, a sodium leak channel NALCN-Related Disease »
2025	IBRO Collaborative Research Grant (USD 6k, co-PI with Salinee Jantrapirom, Chiang Mai University, Thailand): « Developing <i>Drosophila</i> models for functional genetics of NALCN mutations and drug discovery in channelopathies »
2026-2027	Fondation Maladies Rares (25k€, PI): « Paving the way to Personalized Medicine for Rare Neurodevelopmental Disorders »
2026-2027	Hubert Curien Orchid exchange program (12k€, French PI): « Exploring TCU411's Neuroprotective Effects Through GABAB Receptor and Calcium Channel Modulation in Sleep-Deprived Models »

H. Meeting organization:

- 2005 : Co-organizer of the « Patch-Club » of Montpellier
- 2005 : Member of the organizing committee, 16th “ Ion Channels” meeting (Presqu’île de Giens – France)
- 2006-2007 : Member of the organizing committee, 17th and 18th “Ion Channels” meeting (Presqu’île de Giens – France) as co-president (2006) and President (2007) of the organizing committee respectively
- 2012 : Organizer of the training workshop on « Viral Vectors and Gene Transfer » – BioCampus Service Unit – May 22nd, 2012
- 2014 : Organizer of the training workshop on « Viral Vectors and Gene Transfer : an update » – BioCampus Service Unit – October 10th, 2014
- 2023 : Co-organizer of a Franco-Thai symposium and a workshop on « Viral Vectors for Gene Transfer and Genome Editing » – Mahidol University – Thailand – April 17th-21st, 2023
- 2023 : Co-organizer of the [1st workshop on the NALCN ion channel](#), Alicante – Spain – August 31st-September 3rd, 2023
- 2024 : Co-organizer of a Franco-Thai symposium and a workshop on « Viral Vectors for Gene Transfer and Genome Editing » – Mahidol University – Thailand – April 22th-26th, 2024
- 2025: Co-organizer of a workshop on « Viral Vectors for Gene Transfer and Genome Editing » – Mahidol University – Thailand – April 29th-May 2nd, 2025

I. Award & Bonus

Champion of Hope – 2nd International conference on NALCN and related diseases – San Antonio – TX- USA – October 10-12, 2025.

Individual performance bonus (Component 3 of the compensation system for teaching and research staff), 2025-2028.