

## CURRICULUM VITAE

Nome: Salio Chiara  
Indirizzo: Dipartimento di Scienze Veterinarie, Largo Braccini 2, 10095 Grugliasco (Torino)  
Tel. (39) 011/6709327  
Fax (39) 011/6709138  
E-mail: chiara.salio@unito.it

### Educazione:

1995 **Laurea in Scienze Naturali**, Università di Torino, votazione: 110/110, titolo: "Conservazione del *Bufo bufo* nella Provincia di Cuneo".  
1996 **Master post-laurea** ("Tecnico per i rilevamenti ambientali"-CSEA-Bonafous Torino).  
1997-2001 **Dottore di Ricerca in Endocrinologia Comparata** (Dottorato in Co-Tutela Italia-Francia) presso il Dipartimento di Biologia animale, Università di Torino (Prof. M.F. Franzoni) e presso il Laboratorio di Neurobiologia dei Segnali Intercellulari, Università Parigi 6 (Dott. M. Conrath). Titolo: "I recettori cannabinoidi CB1 nel midollo spinale: studio morfofunzionale e comparato".

### Posizioni correnti/passate:

Dal 2021 **Professore Associato** (SSD VET/01) presso il Dipartimento di Scienze Veterinarie, Università di Torino.  
2006-2021 **Ricercatore confermato** (SSD VET/01) presso il Dipartimento di Scienze Veterinarie, Università di Torino.  
2005-2006 **Borsa Post-dottorato** presso il Dipartimento di Morfofisiologia Veterinaria (Prof. A. Merighi), "Ruolo delle neurotrofine nei meccanismi centrali nocicettivi".  
2001-2004 **Assegnista di Ricerca** presso il Dipartimento di Morfofisiologia Veterinaria (Prof. A. Merighi), "Neuroanatomia funzionale delle vie nocicettive spinali".

### Competenze specifiche:

Esperienza di tecniche di laboratorio nel campo delle neuroscienze, quali microscopia elettronica, microscopia ottica (immunoistochimica in microscopia confocale), analisi di immagini del calcio, test comportamentali, modelli murini di dolore infiammatorio e neuropatico. Principali linee di ricerca:

- Neuroanatomia funzionale delle vie nocicettive spinali.
- Ruolo delle neurotrofine nei meccanismi nocicettivi centrali.

### Attività didattica:

- Corso di Laurea Magistrale a Ciclo Unico in Medicina Veterinaria:  
CI Zoologia e botanica (SVE0010)

- Corso di Laurea in Produzioni e Gestione degli Animali in Allevamento e Selvatici:  
Biologia dei Vertebrati (VET0204).

- Corso di Laurea in Sistemi Zootecnici Sostenibili (SiZOS):  
Elementi di Anatomia degli animali in allevamento (SVE0216)

- Corso di Laurea in Tecniche di Assistenza Veterinaria (TaVET):

Elementi di Anatomia veterinaria I (SVE0196)

- Tutor del Dottorato di Ricerca in Neuroscienze

**Finanziamenti per progetti di ricerca:**

Coordinatore del progetto: Cross-talk between peptidergic and non-peptidergic primary afferent fibres in chronic pain: neurotrophic factor and peptide signalling (Progetto d'Ateneo-Compagnia di San Paolo-2012).

Coordinatore del progetto: "Alterazioni della sensibilità meccanica dovute a neuropatia diabetica" (Progetto finanziato da CRT-2021).

**Membro di Società scientifiche:**

Società Italiana di Neuroscienze (S.I.N.S.)

Federazione europea di Neuroscienze (F.E.N.S.).

Associazione Italiana dei Morfologi Veterinari (A.M.V.).

**Pubblicazioni:**

- 1) Scarpetta V., Torres F.B., **Salio C.**, Agarwal A., Sassoè-Pognetto M., Patrizi A. 2023. Morphological and mitochondrial changes in murine choroid plexus epithelial cells during healthy aging. *Fluids Barriers CNS* 20(1):19.
- 2) Rolfo A., Cosma S., Nuzzo A.M., **Salio C.**, Moretti L., Sassoè-Pognetto M., Carosso A.R., Borella F., Cutrin J.C., Benedetto C. 2022. Placental Anti-oxidant Adaptive Response in Asymptomatic and Symptomatic COVID-19 Third Trimester Pregnancies. *Biomedicine* 10 (3): 634.
- 3) Carozzi V.A., **Salio C.**, Menendez V.R., Ciglieri E., Ferrini F. 2021. 2D vs 3D morphological analysis of dorsal root ganglia in health and painful neuropathy *Eur J Histochem.* 65(s1): 3276.
- 4) Ferrini F., **Salio C.**, Boggio E., Merighi A. 2021. Interplay of BDNF and GDNF in the mature spinal somatosensory system and its potential therapeutic relevance. *Curr Neuropharmacol* 19(8):1225-1245.
- 5) Carli S., Chaabane L., Butti C., De Palma C., Aimar P., **Salio C.**, Vignoli A., Giustetto M., Landsberger N., Frasca A. 2021. In vivo magnetic resonance spectroscopy in the brain of *Cdk15* null mice reveals a metabolic profile indicative of mitochondrial dysfunctions. *J. Neurochem* 157(4):1253-1269.
- 6) **Salio C.**, Aimar P., Malapert P., Moqrich A., Merighi A. 2021. Neurochemical and ultrastructural characterization of unmyelinated non-peptidergic C-nociceptors and C-low threshold mechanoreceptors projecting to lamina II of the mouse spinal cord. *Cell Mol Neurobiol* 41(2):247-262.
- 7) Manfrini N., Mancino M., Miluzio A., Oliveto S., Balestra M., Calamita P., Alfieri R., Rossi R.L., Sassoè-Pognetto M., **Salio C.**, Cuomo A., Bonaldi T., Manfredi M., Marengo E., Ranzato E., Martinotti S., Cittaro D., Tonon G., Biffo S. 2020. FAM46C and FNDC3A are multiple myeloma tumor suppressors that act in concert to impair clearing of protein aggregates and autophagy. *Cancer Research* 80(21):4693-4706.
- 8) Ferrini F., Perez-Sanchez J., Ferland S., Lorenzo L-E., Godin A., Plasencia-Fernandez I., Cottet M., Castonguay A., Wang F., **Salio C.**, Doyon N., Merighi A., De Koninck Y. 2020. Differential chloride homeostasis in the spinal dorsal horn locally shapes synaptic metaplasticity and modality-specific sensitization. *Nat. Comm.* 11(1):3935.

- 9) Ciglieri E., Vacca M., Ferrini F., Atteya M.A., Aimar P., Ficarra E., Di Cataldo S., Merighi A., **Salio C.** 2020. Cytoarchitectural analysis of the neuron-to-glia association in the dorsal root ganglia of normal and diabetic mice. *J. Anat.* 237(5):988-99.
- 10) Bohic M., Marics I., De Pais Paiva Santos C., Ben-Arie N., Malapert P., **Salio C.**, Reynders A., Le Feuvre Y., Saurin A.J., Moqrich A. 2020. Loss of *bhlha9* impairs thermotaxis and formalin-evoked pain in a sexually dimorphic manner. *Cell Reports* 30(3):602-610.e6.
- 11) Calorio C., Gavello D., Guarina L., **Salio C.**, Sassoè-Pognetto M., Riganti C., Bianchi F.T., Hofer N.T., Tuluc P., Obermair G., Defilippi P., Balzac F., Turco E., Bett G.C., Rasmusson R.L., Carbone E. 2019. Impaired chromaffin cells excitability and exocytosis in autistic Timothy syndrome TS2-neo mouse rescued by L-type calcium channel blockers. *J. Physiol.* 597(6):1705-1733.
- 12) Kambrun C., Roca-Lapirot O., **Salio C.**, Landry M., Moqrich A., Le Feuvre Y. 2018. TFAFA4 Reverses Mechanical Allodynia through Activation of GABAergic Transmission and Microglial Process Retraction. *Cell Reports* 22 (11): 2886-2897.
- 13) Cerruti F., Jocollé G., **Salio C.**, Oliva L., Paglietti L., Alessandria B., Mioletti S., Donati G., Numico G., Cenci S., Cascio P. 2017. Proteasome stress sensitizes malignant pleural mesothelioma cells to bortezomib-induced apoptosis. *Scientific Reports* 7 (1): 17626.
- 14) **Salio C.**, Merighi A. 2017. Ultrastructural Localization of BDNF and trkB Receptors. In: Duarte C., Tongiorgi E. (eds) Brain-Derived Neurotrophic Factor (BDNF). *Neuromethods*, vol 143, pp. 133-148. Humana, New York, NY.
- 15) Sodero A.O, Rodriguez-Silva M., **Salio C.**, Sassoè-Pognetto M., Chambers J.W. 2017. Sab is differentially expressed in the brain and affects neuronal activity. *Brain Res.*1670: 76-85.
- 16) **Salio C.**, Merighi A., Bardoni R. 2017. GABA<sub>B</sub> receptors-mediated tonic inhibition of glutamate release from A $\beta$  fibers in rat laminae III/IV of the spinal cord dorsal horn. *Mol. Pain* 13: 1-16.
- 17) Juif P.E., **Salio C.**, Zell V., Melchior M., Lacaud A., Petit-Demouliere N., Ferrini F., Darbon P., Hanesch U., Anton F., Merighi A., Lelièvre V., Poisbeau P. 2016. Peripheral and central alterations affecting spinal nociceptive processing and pain at adulthood in rats exposed to neonatal maternal deprivation. *Eur. J. Neurosci.* 44 (3): 1952-1962.
- 18) Ciglieri E., Ferrini F., Boggio E.M., **Salio C.** 2016. An improved method for in vitro morphofunctional analysis of mouse dorsal root ganglia. *Ann. Anat.* 207: 62-67.
- 19) **Salio C.**, Ferrini F. 2016. BDNF and GDNF expression in discrete populations of nociceptors. *Ann. Anat.* 207: 55-61.
- 20) Bradman M.J., Ferrini F., **Salio C.**, Merighi A. 2015. Practical mechanical threshold estimation in rodents using Von Frey hairs/Semmes-Winsteins monofilaments: towards a rational method. *J. Neurosci. Methods*, 255: 92-103.
- 21) **Salio C.**, Ferrini F., Muthuraju S., Merighi A. 2014. Pre-synaptic modulation of spinal nociceptive transmission by glial cell line-derived neurotrophic factor (GDNF). *J. Neurosci*, 34 (41): 13819-13833.
- 22) Barral S., Beltramo R., **Salio C.**, Aimar P., Lossi L., Merighi A. 2014. Phosphorylation of histone H2AX in the mouse brain from development to senescence. *Int J Mol Sci*, 15(1):1554-1573.
- 23) Ferrini F., Russo A., **Salio C.** 2014. Fos and pERK immunoreactivity in spinal cord slices: comparative analysis of in vitro models for testing putative antinociceptive molecule. *Ann. Anat.* 194 (4): 217-223.
- 24) Ferrini F., **Salio C.**, Merighi A. 2012. Microglia-to-neuron communication in spinal nociceptive pathways. In: Charanjit Kaur, Ling Eng-Ang (Eds.), *Microglia: Biology, Functions and Roles in Disease*, Cell Biology Research Progress, Nova Biomedical.

- 25) Lossi L., Gambino G., Alasia S., **Salio C.** 2011. Cell Death during Cerebellar Development. In: Schmid C.J. and Wolfe J.W. (Eds.), *Neuronal Cell Apoptosis. Cell Biology Research Progress*, Nova Publishers.
- 26) Lossi L., Gambino G., **Salio C.**, Merighi A. 2011. Direct In Situ RT-PCR. In: Merighi A. (Ed.), *Neuropeptides: methods and protocols. Methods in Molecular Biology*, Humana Press, New York, Vol. 789, pp. 111-125.
- 27) **Salio C.**, Lossi L., Merighi A. 2011. Combined light and electron microscopic visualization of neuropeptides and their receptors in central neurons. In: Merighi A. (Ed.), *Neuropeptides: methods and protocols. Methods in Molecular Biology*, Humana Press, New York, Vol. 789, pp. 57-71.
- 28) Merighi A., **Salio C.**, Ferrini F., Lossi L. 2011. Neuromodulatory function of neuropeptides in the normal CNS. *J. Chem. Neuroanat.* 42 (4): 276-287.
- 29) Bencivinni I., Ferrini F., **Salio C.**, Beltramo M., Merighi A. 2011. The somatostatin analogue octreotide inhibits capsaicin-mediated activation of nociceptive primary afferent fibres in spinal cord lamina II (*substantia gelatinosa*). *Eur.J. of Pain* 15(6): 591-599.
- 30) Lossi L., Gambino G., **Salio C.**, and Merighi A. 2010. Autophagy regulates the post-translational cleavage of BCL-2 and promotes neuronal survival. *TheScientificWorldJOURNAL* 10: 924-999.
- 31) Ferrini F., **Salio C.**, Lossi L., Gambino G., Merighi A. 2010. Modulation of inhibitory neurotransmission by the vanilloid receptor type 1 (TRPV1) in organotypically cultured mouse substantia gelatinosa neurons. *Pain*, 150 (1): 128-140.
- 32) Amritraj A., Peake K., Kodam A., **Salio C.**, Merighi A., Vance J.E., Kar S. 2009. Increased activity and altered subcellular distribution of lysosomal enzymes determine neuronal vulnerability in Niemann-Pick type C1-type deficient mice. *Am. J. Pathol.* 175 (6): 2540-2556.
- 33) Lossi L., Alasia S., **Salio C.**, Merighi A. 2009. Cell death and proliferation in acute slices and organotypic cultures of mammalian CNS. *Prog. Neurobiol.* 88 (4): 221-245.
- 34) Ferrini F., **Salio C.**, Lossi L., Merighi A. 2009. Ghrelin in central neurons. *Curr Neuropharmacol.* 7(1): 37-49.
- 35) Merighi A., **Salio C.**, Ghirri A., Lossi L., Ferrini F., Betelli C., Bardoni R., 2008. BDNF as a pain modulator. *Prog. Neurobiol.* 85 (3):297-317.
- 36) Vergnano A.M., Ferrini F., **Salio C.**, Lossi L., Baratta M., Merighi A., 2008. The gastrointestinal hormone ghrelin modulates inhibitory neurotransmission in deep laminae of mouse spinal cord dorsal horn. *Endocrinology* 149 (5): 2306-2312.
- 37) Merighi A., Bardoni R., **Salio C.**, Lossi L., Ferrini F., Prandini M., Zonta M., Gustincich S., Carmignoto G., 2008. Pre-synaptic functional trkB receptors mediate the release of excitatory neurotransmitters from primary afferent terminals in lamina II (substantia gelatinosa) of post-natal rat spinal cord. *Dev. Neurobiol* 68 (4): 457-475.
- 38) Bardoni R., Ghirri A., **Salio C.**, Prandini M., Merighi A., 2007. BDNF-Mediated Modulation of GABA and Glycine Release in Dorsal Horn Lamina II from Postnatal Rats. *Dev. Neurobiol.* 67 (7): 960-975.
- 39) Ferrini F., **Salio C.**, Vergnano A.M., Merighi A., 2007. Vanilloid receptor-1 (TRPV1)-dependent activation of inhibitory neurotransmission in spinal substantia gelatinosa neurons of mouse. *Pain.* 129 (1-2): 195-209.
- 40) **Salio C.**, Averill S., Priestley J.V., Merighi A., 2007. Costorage of BDNF and neuropeptides within individual dense-cored vesicles in central and peripheral neurons. *Dev. Neurobiol.* 67(3): 326-338.
- 41) **Salio C.**, Lossi L., Ferrini F., Merighi A., 2006. Neuropeptides as synaptic transmitters in central neurons. *Cell and Tissue Res* 326: 583-598.

- 42) **Salio C.**, Lossi L., Ferrini F., Merighi A., 2005. Ultrastructural evidence for a pre- and postsynaptic localization of full-length trkB receptors in substantia gelatinosa (lamina II) of rat and mouse spinal cord. *Eur. J. Neurosci* 22: 1951-1966.
- 43) Vergnano A.M., **Salio C.**, Merighi A., 2004. NK1 receptor activation leads to enhancement of inhibitory neurotransmission in spinal substantia gelatinosa neurons of mouse. *Pain* 112 (1-2): 37-47.
- 44) Doly S., Fischer J., **Salio C.**, Conrath M., 2004. The vanilloid receptor-1 is expressed in rat spinal dorsal horn astrocytes. *Neurosci. Letters*. 357 (2): 123-126.
- 45) Merighi A., Carmignoto G., Gobbo S., Lossi L., **Salio C.**, Vergnano A.M., Zonta M., 2004. Neurotrophins in spinal cord nociceptive pathways. *Progress in Brain Res.* 146: 291-321.
- 46) Cottone E., **Salio C.**, Conrath M., Franzoni M.F., 2003. *Xenopus laevis* CB1 cannabinoid receptor: molecular cloning and mRNA distribution in the CNS. *J. Comp. Neurol.* 464: 487-496.
- 47) Merighi A., Aimar P., Lossi L., **Salio C.**, Vergnano A.M., 2002. Unconventional sensory messengers in the spinal cord: clues from histological and functional analysis. *It. J. Anat. Embryol.* 107 (2): 127-141.
- 48) **Salio C.**, Cottone E., Conrath M., Franzoni M.F., 2002. CB1 cannabinoid receptors in amphibian spinal cord: relationships with some nociception markers. *J. Chem. Neuroanat.* 24 (3): 153-162.
- 49) **Salio C.**, Doly S., Fischer J., Franzoni M.F., Conrath M., 2002. Neuronal and astrocytic localization of the cannabinoid receptor-1 in the dorsal horn of the rat spinal cord. *Neurosci. Letters* 329 (1): 13-16.
- 50) **Salio C.**, Fischer J., Franzoni M.F., Conrath M., 2002. Pre- and postsynaptic localizations of the CB1 cannabinoid receptor in the dorsal horn of the rat spinal cord. *Neuroscience* 110 (4): 755-764.
- 51) **Salio C.**, Fischer J., Franzoni M.F., Mackie K., Kaneko T., Conrath M., 2001. CB1-cannabinoid and  $\mu$ -opioid receptor colocalization on postsynaptic target in the rat dorsal horn. *Neuroreport* 12 (17): 3689-3692.
- 52) Conrath M., Fischer J., **Salio C.**, Franzoni M.F., Doly S., 2001. Vanilloïdes, cannabinoïdes et nociception: aspects anatomiques. *Doul. et Analg.* 4: 181-192.
- 53) **Salio C.**, Fischer J., Wijkhuisen A., Franzoni M.F., Conrath M., 2001. Distribution and ultrastructure of Tachykinin-like immunoreactivity in the frog (*Rana esculenta*) spinal cord, notably the dorsal horn. *J. Comp. Neurol.* 433 (2): 183-192.

## English version

### CURRICULUM VITAE

Name: Salio Chiara  
Laboratory address: Veterinary Sciences Department, Largo Braccini 2, 10095 Grugliasco (Torino)  
Tel. (39) 011/6709327  
Fax (39) 011/6709138  
Email: [chiara.salio@unito.it](mailto:chiara.salio@unito.it)

### Education

1995 **Degree in Natural Science**, University of Turin, Final mark:110/110, title: "Conservation of *Bufo bufo* in Cuneo's Province".  
1996 **Master Degree** ("Technician in environmental pollutions"-CSEA-Bonafous Turin).  
1997-2001 **Ph.D. in Comparative Endocrinology** (Italy-France joint PhD) at the Animal Biology Dept, University of Turin (Prof. M.F. Franzoni) and at the Laboratoire de Neurobiologie des Signaux Intercellulaires, Université Paris 6 (Dott. M. Conrath).

Title: "CB1 cannabinoid receptors in the spinal cord: a morphofunctional and comparative study".

**Current/past positions:**

- 2021 **Associate Professor** (SSD VET/01) at the Dept of Veterinary Sciences, University of Turin.
- 2006-2021 **Assistant Professor** (SSD VET/01) at the Dept of Veterinary Sciences, University of Turin.
- 2005-2006 **Post-doctoral position** at the Veterinary Morphophysiology Dept (Prof. A. Merighi), "Role of neurotrophins in central nociceptive mechanisms".
- 2001-2004 **Research Fellow** at the Veterinary Morphophysiology Dept (Prof. A. Merighi), "Functional neuroanatomy of spinal nociceptive pathways".

**Specific competences:**

Experience in laboratory techniques applied to neuroscience field, ranging from light and electron microscopy to confocal microscopy, calcium-imaging analysis, behavioural tests, murine models of inflammatory and neuropathic pain. Actually involved in the following research:

- Functional neuroanatomy of spinal nociceptive pathways.
- Role of neurotrophins in central nociceptive mechanisms.

**Teaching:**

- Degree in Veterinary Medicine (5 years Diploma):  
CI Zoology and Botany (SVE0010)

- Degree in Production and management of domestic and wild animals:  
Vertebrate biology (VET0204).

- Degree in SiZOS:  
Essentials of farm animal anatomy (SVE0216)

-Degree in TAVET:  
Principles of Veterinary anatomy I (SVE0196)

- Tutor of the PhD programme in Neuroscience

**Grants:**

Principal Investigator in the project: Cross-talk between peptidergic and non-peptidergic primary afferent fibres in chronic pain: neurotrophic factor and peptide signalling (Founded by S. Paolo Foundation-2012).

Principal Investigator in the project: "Alterations of mechanical sensitivity in diabetic neuropathic pain" (Founded by CRT-2021).

**Memberships in professional societies:**

Italian Society for Neuroscience (S.I.N.S.)  
Federation of European Neurosciences (F.E.N.S.).  
Associazione Italiana dei Morfologi Veterinari (A.M.V.).

### Full papers:

- 1) Scarpetta V., Torres F.B., **Salio C.**, Agarwal A., Sassoè-Pognetto M., Patrizi A. 2023. Morphological and mitochondrial changes in murine choroid plexus epithelial cells during healthy aging. *Fluids Barriers CNS* 20(1):19.
- 2) Rolfo A., Cosma S., Nuzzo A.M., **Salio C.**, Moretti L., Sassoè-Pognetto M., Carosso A.R., Borella F., Cutrin J.C., Benedetto C. 2022. Placental Anti-oxidant Adaptive Response in Asymptomatic and Symptomatic COVID-19 Third Trimester Pregnancies. *Biomedicines* 10 (3): 634.
- 3) Carozzi V.A., **Salio C.**, Menendez V.R., Ciglieri E., Ferrini F. 2021. 2D vs 3D morphological analysis of dorsal root ganglia in health and painful neuropathy *Eur J Histochem.* 65(s1): 3276.
- 4) Ferrini F., **Salio C.**, Boggio E., Merighi A. 2021. Interplay of BDNF and GDNF in the mature spinal somatosensory system and its potential therapeutic relevance. *Curr Neuropharmacol* 19(8):1225-1245.
- 5) Carli S., Chaabane L., Butti C., De Palma C., Aimar P., **Salio C.**, Vignoli A., Giustetto M., Landsberger N., Frasca A. 2021. In vivo magnetic resonance spectroscopy in the brain of *Cdk15* null mice reveals a metabolic profile indicative of mitochondrial dysfunctions. *J. Neurochem* 157(4):1253-1269.
- 6) **Salio C.**, Aimar P., Malapert P., Moqrich A., Merighi A. 2021. Neurochemical and ultrastructural characterization of unmyelinated non-peptidergic C-nociceptors and C-low threshold mechanoreceptors projecting to lamina II of the mouse spinal cord. *Cell Mol Neurobiol* 41(2):247-262.
- 7) Manfrini N., Mancino M., Miluzio A., Oliveto S., Balestra M., Calamita P., Alfieri R., Rossi R.L., Sassoè-Pognetto M., **Salio C.**, Cuomo A., Bonaldi T., Manfredi M., Marengo E., Ranzato E., Martinotti S., Cittaro D., Tonon G., Biffo S. 2020. FAM46C and FNDC3A are multiple myeloma tumor suppressors that act in concert to impair clearing of protein aggregates and autophagy. *Cancer Research* 80(21):4693-4706.
- 8) Ferrini F., Perez-Sanchez J., Ferland S., Lorenzo L-E., Godin A., Plasencia-Fernandez I., Cottet M., Castonguay A., Wang F., **Salio C.**, Doyon N., Merighi A., De Koninck Y. 2020. Differential chloride homeostasis in the spinal dorsal horn locally shapes synaptic metaplasticity and modality-specific sensitization. *Nat. Comm.* 11(1):3935.
- 9) Ciglieri E., Vacca M., Ferrini F., Atteya M.A., Aimar P., Ficarra E., Di Cataldo S., Merighi A., **Salio C.** 2020. Cytoarchitectural analysis of the neuron-to-glia association in the dorsal root ganglia of normal and diabetic mice. *J. Anat.* 237(5):988-99.
- 10) Bohic M., Marics I., De Pais Paiva Santos C., Ben-Arie N., Malapert P., **Salio C.**, Reynders A., Le Feuvre Y., Saurin A.J., Moqrich A. 2020. Loss of *bhlha9* impairs thermotaxis and formalin-evoked pain in a sexually dimorphic manner. *Cell Reports* 30(3):602-610.e6.
- 11) Calorio C., Gavello D., Guarina L., **Salio C.**, Sassoè-Pognetto M., Riganti C., Bianchi F.T., Hofer N.T., Tuluc P., Obermair G., Defilippi P., Balzac F., Turco E., Bett G.C., Rasmusson R.L., Carbone E. 2019. Impaired chromaffin cells excitability and exocytosis in autistic Timothy syndrome TS2-neo mouse rescued by L-type calcium channel blockers. *J. Physiol.* 597(6):1705-1733.
- 12) Kambrun C., Roca-Lapirot O., **Salio C.**, Landry M., Moqrich A., Le Feuvre Y. 2018. TFAFA4 Reverses Mechanical Allodynia through Activation of GABAergic Transmission and Microglial Process Retraction. *Cell Reports* 22 (11): 2886-2897.
- 13) Cerruti F., Jocolle G., **Salio C.**, Oliva L., Paglietti L., Alessandria B., Mioletti S., Donati G., Numico G., Cenci S., Cascio P. 2017. Proteasome stress sensitizes malignant pleural mesothelioma cells to bortezomib-induced apoptosis. *Scientific Reports* 7 (1): 17626.

- 14) **Salio C.**, Merighi A. 2017. Ultrastructural Localization of BDNF and trkB Receptors. In: Duarte C., Tongiorgi E. (eds) Brain-Derived Neurotrophic Factor (BDNF). *Neuromethods*, vol 143, pp. 133-148. Humana, New York, NY.
- 15) Sodero A.O, Rodriguez-Silva M., **Salio C.**, Sassoè-Pognetto M., Chambers J.W. 2017. Sab is differentially expressed in the brain and affects neuronal activity. *Brain Res.*1670: 76-85.
- 16) **Salio C.**, Merighi A., Bardoni R. 2017. GABA<sub>B</sub> receptors-mediated tonic inhibition of glutamate release from A $\beta$  fibers in rat laminae III/IV of the spinal cord dorsal horn. *Mol. Pain* 13: 1-16.
- 17) Juif P.E., **Salio C.**, Zell V., Melchior M., Lacaud A., Petit-Demouliere N., Ferrini F., Darbon P., Hanesch U., Anton F., Merighi A., Lelièvre V., Poisbeau P. 2016. Peripheral and central alterations affecting spinal nociceptive processing and pain at adulthood in rats exposed to neonatal maternal deprivation. *Eur. J. Neurosci.* 44 (3): 1952-1962.
- 18) Ciglieri E., Ferrini F., Boggio E.M., **Salio C.** 2016. An improved method for in vitro morphofunctional analysis of mouse dorsal root ganglia. *Ann. Anat.* 207: 62-67.
- 19) **Salio C.**, Ferrini F. 2016. BDNF and GDNF expression in discrete populations of nociceptors. *Ann. Anat.* 207: 55-61.
- 20) Bradman M.J., Ferrini F., **Salio C.**, Merighi A. 2015. Practical mechanical threshold estimation in rodents using Von Frey hairs/Semmes-Winsteins monofilaments: towards a rational method. *J. Neurosci. Methods*, 255: 92-103.
- 21) **Salio C.**, Ferrini F., Muthuraju S., Merighi A. 2014. Pre-synaptic modulation of spinal nociceptive transmission by glial cell line-derived neurotrophic factor (GDNF). *J. Neurosci*, 34 (41): 13819-13833.
- 22) Barral S., Beltramo R., **Salio C.**, Aimar P., Lossi L., Merighi A. 2014. Phosphorylation of histone H2AX in the mouse brain from development to senescence. *Int J Mol Sci*, 15(1):1554-1573.
- 23) Ferrini F., Russo A., **Salio C.** 2014. Fos and pERK immunoreactivity in spinal cord slices: comparative analysis of in vitro models for testing putative antinociceptive molecule. *Ann. Anat.* 194 (4): 217-223.
- 24) Ferrini F., **Salio C.**, Merighi A. 2012. Microglia-to-neuron communication in spinal nociceptive pathways. In: Charanjit Kaur, Ling Eng-Ang (Eds.), *Microglia: Biology, Functions and Roles in Disease*, Cell Biology Research Progress, Nova Biomedical.
- 25) Lossi L., Gambino G., Alasia S., **Salio C.** 2011. Cell Death during Cerebellar Development. In: Schmid C.J. and Wolfe J.W. (Eds.), *Neuronal Cell Apoptosis*. Cell Biology Research Progress, Nova Publishers.
- 26) Lossi L., Gambino G., **Salio C.**, Merighi A. 2011. Direct In Situ RT-PCR. In: Merighi A. (Ed.), *Neuropeptides: methods and protocols*. Methods in Molecular Biology, Humana Press, New York, Vol. 789, pp. 111-125.
- 27) **Salio C.**, Lossi L., Merighi A. 2011. Combined light and electron microscopic visualization of neuropeptides and their receptors in central neurons. In: Merighi A. (Ed.), *Neuropeptides: methods and protocols*. Methods in Molecular Biology, Humana Press, New York, Vol. 789, pp. 57-71.
- 28) Merighi A., **Salio C.**, Ferrini F., Lossi L. 2011. Neuromodulatory function of neuropeptides in the normal CNS. *J. Chem. Neuroanat.* 42 (4): 276-287.
- 29) Bencivinni I., Ferrini F., **Salio C.**, Beltramo M., Merighi A. 2011. The somatostatin analogue octreotide inhibits capsaicin-mediated activation of nociceptive primary afferent fibres in spinal cord lamina II (*substantia gelatinosa*). *Eur.J. of Pain* 15(6): 591-599.
- 30) Lossi L., Gambino G., **Salio C.**, and Merighi A. 2010. Autophagy regulates the post-translational cleavage of BCL-2 and promotes neuronal survival. *TheScientificWorldJOURNAL* 10: 924-999.



- 31) Ferrini F., **Salio C.**, Lossi L., Gambino G., Merighi A. 2010. Modulation of inhibitory neurotransmission by the vanilloid receptor type 1 (TRPV1) in organotypically cultured mouse substantia gelatinosa neurons. *Pain*, 150 (1): 128-140.
- 32) Amritraj A., Peake K., Kodam A., **Salio C.**, Merighi A., Vance J.E., Kar S. 2009. Increased activity and altered subcellular distribution of lysosomal enzymes determine neuronal vulnerability in Niemann-Pick type C1-type deficient mice. *Am. J. Pathol.* 175 (6): 2540-2556.
- 33) Lossi L., Alasia S., **Salio C.**, Merighi A. 2009. Cell death and proliferation in acute slices and organotypic cultures of mammalian CNS. *Prog. Neurobiol.* 88 (4): 221-245.
- 34) Ferrini F., **Salio C.**, Lossi L., Merighi A. 2009. Ghrelin in central neurons. *Curr Neuropharmacol.* 7(1): 37-49.
- 35) Merighi A., **Salio C.**, Ghirri A., Lossi L., Ferrini F., Betelli C., Bardoni R., 2008. BDNF as a pain modulator. *Prog. Neurobiol.* 85 (3):297-317.
- 36) Vergnano A.M., Ferrini F., **Salio C.**, Lossi L., Baratta M., Merighi A., 2008. The gastrointestinal hormone ghrelin modulates inhibitory neurotransmission in deep laminae of mouse spinal cord dorsal horn. *Endocrinology* 149 (5): 2306-2312.
- 37) Merighi A., Bardoni R., **Salio C.**, Lossi L., Ferrini F., Prandini M., Zonta M., Gustincich S., Carmignoto G., 2008. Pre-synaptic functional trkB receptors mediate the release of excitatory neurotransmitters from primary afferent terminals in lamina II (substantia gelatinosa) of post-natal rat spinal cord. *Dev. Neurobiol* 68 (4): 457-475.
- 38) Bardoni R., Ghirri A., **Salio C.**, Prandini M., Merighi A., 2007. BDNF-Mediated Modulation of GABA and Glycine Release in Dorsal Horn Lamina II from Postnatal Rats. *Dev. Neurobiol.* 67 (7): 960-975.
- 39) Ferrini F., **Salio C.**, Vergnano A.M., Merighi A., 2007. Vanilloid receptor-1 (TRPV1)-dependent activation of inhibitory neurotransmission in spinal substantia gelatinosa neurons of mouse. *Pain.* 129 (1-2): 195-209.
- 40) **Salio C.**, Averill S., Priestley J.V., Merighi A., 2007. Costorage of BDNF and neuropeptides within individual dense-cored vesicles in central and peripheral neurons. *Dev. Neurobiol.* 67(3): 326-338.
- 41) **Salio C.**, Lossi L., Ferrini F., Merighi A., 2006. Neuropeptides as synaptic transmitters in central neurons. *Cell and Tissue Res* 326: 583-598.
- 42) **Salio C.**, Lossi L., Ferrini F., Merighi A., 2005. Ultrastructural evidence for a pre- and postsynaptic localization of full-length trkB receptors in substantia gelatinosa (lamina II) of rat and mouse spinal cord. *Eur. J. Neurosci* 22: 1951-1966.
- 43) Vergnano A.M., **Salio C.**, Merighi A., 2004. NK1 receptor activation leads to enhancement of inhibitory neurotransmission in spinal substantia gelatinosa neurons of mouse. *Pain* 112 (1-2): 37-47.
- 44) Doly S., Fischer J., **Salio C.**, Conrath M., 2004. The vanilloid receptor-1 is expressed in rat spinal dorsal horn astrocytes. *Neurosci. Letters.* 357 (2): 123-126.
- 45) Merighi A., Carmignoto G., Gobbo S., Lossi L., **Salio C.**, Vergnano A.M., Zonta M., 2004. Neurotrophins in spinal cord nociceptive pathways. *Progress in Brain Res.* 146: 291-321.
- 46) Cottone E., **Salio C.**, Conrath M., Franzoni M.F., 2003. *Xenopus laevis* CB1 cannabinoid receptor: molecular cloning and mRNA distribution in the CNS. *J. Comp. Neurol.* 464: 487-496.
- 47) Merighi A., Aimar P., Lossi L., **Salio C.**, Vergnano A.M., 2002. Unconventional sensory messengers in the spinal cord: clues from histological and functional analysis. *It. J. Anat. Embryol.* 107 (2): 127-141.
- 48) **Salio C.**, Cottone E., Conrath M., Franzoni M.F., 2002. CB1 cannabinoid receptors in amphibian spinal cord: relationships with some nociception markers. *J. Chem. Neuroanat.* 24 (3): 153-162.
- 49) **Salio C.**, Doly S., Fischer J., Franzoni M.F., Conrath M., 2002. Neuronal and astrocytic localization of the cannabinoid receptor-1 in the dorsal horn of the rat spinal cord. *Neurosci. Letters* 329 (1): 13-16.

- 50) **Salio C.**, Fischer J., Franzoni M.F., Conrath M., 2002. Pre- and postsynaptic localizations of the CB1 cannabinoid receptor in the dorsal horn of the rat spinal cord. *Neuroscience* 110 (4): 755-764.
- 51) **Salio C.**, Fischer J., Franzoni M.F., Mackie K., Kaneko T., Conrath M., 2001. CB1-cannabinoid and  $\mu$ -opioid receptor colocalization on postsynaptic target in the rat dorsal horn. *Neuroreport* 12 (17): 3689-3692.
- 52) Conrath M., Fischer J., **Salio C.**, Franzoni M.F., Doly S., 2001. Vanilloïdes, cannabinoïdes et nociception: aspects anatomiques. *Doul. et Analg.* 4: 181-192.
- 53) **Salio C.**, Fischer J., Wijkhuisen A., Franzoni M.F., Conrath M., 2001. Distribution and ultrastructure of Tachykinin-like immunoreactivity in the frog (*Rana esculenta*) spinal cord, notably the dorsal horn. *J. Comp. Neurol.* 433 (2): 183-192.