CURRICULUM VITAE

DATE: July, 2018

NAME: Michèle Catherine STUDER married MENEGHELLO

ADDRESS AND TELEPHONE NUMBERS:
Institut de Biologie Valrose, iBV
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FRENCH AERES evaluation_2011: grade A+
FRENCH HCERES evaluation 2017: excellent

PERSONAL INFORMATION:
Date of birth: 15th September 1962
Place of birth: Milan (Italy)
Nationalities: French, Italian
Languages: Fluent in Italian, French, English and German.

TRAINING AND EDUCATION:

09/91	***PhD in Pharmacology/Molecular Biology*** Istituto di Ricerche Farmacologiche Mario Negri, Milano, Italy.
03/87	***"Laurea 110/110 cum laude" in Biological Sciences*** University of Pisa, Pisa, Italy.
10/82-08/83	**University of Geneva, Faculty of Sciences** (all exams passed after the first year of study).
06/82	**High School Degree (Baccalaureate Diploma)** German School in Milan, Milano, Italy.

CURRENT EMPLOYMENT:

03/13-present	***Directeur de Recherche (DR1) INSERM***, Institute of Biology Valrose (iBV), UMR INSERM1091/CNRS7277/UNS, University of Nice Sophia-Antipolis (UNS), Valrose Campus, Nice, France. *Institute Director:* Stéphane Noselli

PREVIOUS APPOINTMENTS:

03/09-02/13	***Directeur de Recherche (DR2) INSERM***, UMR INSERM U636 « Genetics of normal and pathological development », University of Nice Sophia-Antipolis, Valrose Campus, Nice, France. *Institute Director:* Minoo Rassouldazegan
04/01-02/09	***Full Investigator (Tenured Position)*** and **Director of the Transgenic and Knock-out Core Facility** TIGEM (Telethon Institute of Genetics and Medicine), Napoli, Italy.

Institute Director: Andrea Ballabio

03/00-02/01 ***MRC Research Group Leader/ Senior Lecturer***
Neural Development Unit, Institute of Child Health, University College London, London, UK.
Head of Unit: Andrew Copp

03/97-02/00 ***MRC Research Group Leader/ Junior Lecturer***
MRC Centre for Developmental Neurobiology, King's College, Guy's Campus, London, UK.
Centre Director: Andrew Lumsden

10/91- 02/97 ***Post-doctoral Research Fellow***
Division of Developmental Neurobiology,
MRC/National Institute for Medical Research, London, UK.
Head of Laboratory: Robb Krumlauf

09/87-09/91 ***Post-graduate Research Fellow***
Unit of Molecular Biology, Istituto di Ricerche Farmacologiche Mario Negri, Milano, Italy.
Supervisor: Enrico Garattini

03/87-08/87 ***Under-graduate Research Fellow***
Istituto di Mutagenesi e Differenziamento, CNR, Pisa, Italy.
Institute Director: Roberto Revoltella

COMPLEMENTARY EXPERIENCE IN INTERNATIONAL INSTITUTIONS:

2017 ***Visiting Scientist*** at the Department of Molecular Biotechnology and Health Sciences (MCB), Torino, Italy
Head of Laboratory: Giorgio Merlo

2000 ***Visiting Research Fellow at*** **UCSF,** San Francisco, USA
Head of Laboratory: John Rubenstein

1994 ***Visiting Research Fellow at Baylor College of Medicine,*** Houston, USA
Head of Laboratory: Alan Bradley

1990 ***Visiting Research Fellow at IMP,*** Vienna, Austria
Head of Laboratory: Erwin Wagner

1989 ***Visiting Research Fellow*** at ***Fidia S.P.A.*** 'Research Laboratories', Abano, Italy

CURRENT GRANTS OBTAINED IN PEER-REVIEWED COMPETITIONS:

10/17-09/20 **Fondation Agir Pour l'Audition (APA)** "*Genetic and functional analysis of normal and pathological auditory pathways in the embryonic and adult mouse system."*

04/17-03/20 **AFM Téléthon.** "*In vivo and in vitro reprogramming of non-neuronal cells to cortico-spinal motor neuron."*

03/16-02/19 **2015 ERA-NET NEURON call on European Research Projects on Neurodevelopmental Disorders.** *"ImprovVision: Understanding and reprogramming developmental visual disorders: from anophthalmia to cortical impairments."*

10/15-09/18 **ANR (Agence National Recherche) Projet générique 2015** *"DEAF: Understanding the mechanisms of deafness by using intersectional genetics and functional analysis in the mouse."*

10/15-09/18 **Equipe FRM 2015** "*Transcriptional control of neuronal activity during differentiation and wiring of the mouse neocortex".*

10/13-09/18 **ANR (Agence National Recherche) Programme Blanc** *"Molecular, cellular and activity-dependent mechanisms controlling arealization and circuitry in the developing mouse neocortex."*

PAST AWARDS:

2011 & 2015 ***FRM*** *"Equipe labélisée"*
2009 ***ANR*** *"Chaire d'Excellence Senior" Award*
1997 ***MRC*** *Career Development Award*
1994 ***EEC*** *Human Capital Mobility personal post-doctoral fellowship*
1993 ***EMBO*** *long-term post-doctoral fellowship.*
1991 ***SNF (Swiss National Foundation)*** *personal post-doctoral fellowship.*

PEER-REVIEWED SERVICE TO GRANT AGENCIES AND SCIENTIFIC JOURNALS (2010-2018):

2015-2018 ***Vice-President and Member of the Committee ANR CES 16***
2013-2014 ***Member of the AERES/HCERES evaluation committee*** for IBENS, Paris, and for the Centre de Biologie du Développement (CBD), Toulouse, France.
2011- ***Editorial Board member*** of *Developmental Neurobiology* and *Frontiers Neuroscience*, and contributing member of the *F1000 Prime* in Neurodevelopment.
2010- ***Ad hoc* reviewer** in at least 28 International peer-reviewed Journals and 7 International grant agencies.

MEMBER OF SCIENTIFIC PROGRAMS AND CONSORTIA (2010-2018):

2016-2020 ***Member*** *of the* ***Innovative Solutions in Refractory Chronic Pain (INOV-PAIN) Program***, a regional collaboration for a "Fédération Hospitalo-Universitaire (***FHU***)"
2016-2019 ***Member*** *of the* ***International collaborative program grant ERA-NET NEURON:*** ImprovVision: "*Understanding and reprogramming developmental visual disorders: from anophthalmia to cortical impairment"*
2015-2016 ***Participation in mobility grants between Italy and France*** *via* the French-Italian University, Galileo Programme and Campus France.
2014- ***Member*** *of the* ***Board of Directors of the "Société Française de biologie du Développement (SFBD)"***
2013- ***Vice-président*** of the Association *"Développement des Réseaux Neuronaux "*
2013- **Member** *of the* ***University interdisciplinary axis MTC-NSC*** "*Theoretical and Computational Modelisation in Neuorsciences and Cognitive Sciences*"
2012-2019 ***Member*** *of the* ***LABEX SIGNALIFE*** "*Network for Innovation on Signal Transduction pathways in Life Sciences*", Investissement d'Avenir, Laboratroire d'excellence
2009-2013 ***Member*** *of the* ***BMBS COST Action*** " *HOX and TALE transcription factors in Development and Disease*"

CONTRIBUTIONS TO TRAINING AND TEACHING ACTIVITIES (2010-2018):

2016-2019 ***Joint PhD student*** between S. Nicolis' lab at the University of Milano and my lab at the University de Nice funded by the Franco-Italian Vinci Program
2010-2018 ***Supervision and training of 8 post-doc fellows, 11 PhD students***, ***11 Master and undergraduate students, and 5 summer students***
2010-2018 ***Reviewer of the evaluation committee of 10 PhD*** candidates
2010-2018 ***President of the evaluation committee of 4 PhD*** candidates

2013-2017 ***Teaching at the Master course UE35*** at the University of Nice, France

2012-2016 ***Doctoral and post-doctoral contracts*** *with industrial and non-profit private associations* (AXA, FRM, AFM)

2012-2016 ***Occasional teaching in neurodevelopment and neurobiology*** in national and international Master and PhD courses

ORGANIZATION OF EVENTS (2010-2018):

2018 ***Scientific Committee Member*** *of the 22nd Biennial Meeting of the International Society for Developmental Neuroscience (ISDN), Nara, Japan*

2016 ***Executive member and organizer*** of the *21st Biennial Meeting of the International Society for Developmental Neuroscience (ISDN), Antibes, France*

2017 ***Co-organizer of the 2nd joint SFBD/SBCF*** French developmental meeting in Lyon, France

2017 ***Co-organizer of the 18th International Congress of Developmental Biology (ISDB)*** in Singapore,

2013 & 2016 ***Co-organizer of Symposia*** at French Neurosciences meetings.
Co-organizer of annual meeting « *Club des Réseaux neuronaux* » held ither every year in Paris or in the city hosting the French Neuorsciences meeting.
Organizer of the iBV Neurobiology Club. Members from the iBV and IPMC in Nice interested in neurobiology are welcome to participate and present their work every 15 days.

2013-2015 ***Participation at the local " Fête de la Science***" and "***Brain Awareness Week***" dedicated to the public and schools.

PATENT:

Coordinator of the **International Patent** entitled "*Cell differentiation or reprogramming using Fezf2 and Lmo4*", first deposited on the 9th of November 2015 (N° EP15306775), internationally submitted on the 9th of November 2016 (N° PCT/EP2016/077029) and published on the 18th of May 2017 (N° WO 2017/081033 A1).

PUBLICATIONS:

1. Terrigno M., Bertacchi M., Pandolfini L., Baumgart M., Calvello M., Cellerino A., **Studer M.***, Cremisi F.* The microRNA miR-21 is a mediator of FGF8 action on cortical COUP-TFI translation. ***Stem Cell Reports 2018***, *in press*. **co-last corresponding authors.*

2. Simi, A. and **Studer, M.** Developmental genetic programs and activity-dependent mechanisms instruct neocortical area mapping. ***Curr Opin Neurobiol. 2018*** Jul 10;53:96-102. doi: 10.1016/j.conb.2018.06.007.

3. Bonzano S., Crisci I., Podlesny-Drabiniok A., Krezel W., **Studer M.***, De Marchis S.* Astrogliogenesis in the adult hippocampal neurogenic niche is cell-intrinsically controlled by COUP-TFI in vivo. ***Cell Reports 2018*** Jul 10;24(2):329-341. doi: 10.1016/j.celrep.2018.06.044. **co-last corresponding authors.*

4. Bertacchi M., Parisot J., **Studer M.** The pleiotropic transcriptional regulator COUP-TFI plays multiple roles in neural development and disease. ***Brain Res. 2018*** Apr 27. doi: 10.1016/j.brainres.2018.04.024.

5. Ruiz-Reig N., Andres B., Lamonerie T., Theil T., Fairén A., **Studer M**. The caudo-ventral pallium is a novel pallial domain expressing Gdf10 and generating Ebf3-positive neurons of the medial amygdala. ***Brain Struct Funct. 2018*** Jun 4. doi: 10.1007/s00429-018-1687-0.

6. Odelin G., Faure E., Coulpier F., Di Bonito M., Bajolle F., **Studer M.**, Avierinos J.F., Charnay P., Topilko P., Zaffran S. Krox20 defines a subpopulation of cardiac neural crest cells contributing to arterial valves and bicuspid aortic valve. ***Development 2018*** Jan 3;145(1). pii: dev151944. doi: 10.1242/dev.151944.

7. Ruiz-Reig N & **Studer M.** Rostro-Caudal and Caudo-Rostral Migrations in the Telencephalon: Going Forward or Backward? ***Front Neurosci. 2017*** Dec 21;11:692. doi: 10.3389/fnins.2017.00692. Review.

8. Parisot, J., Flore, G., Bertacchi, M. and **Studer, M**. COUP-TFI mitotically regulates production and migration of dentate granule cells and modulates hippocampal Cxcr4 expression. ***Development 2017,*** *Jun 1;144(11):2045-2058. doi: 10.1242/dev.139949.*

9. Di Bonito, M., and **Studer, M.***, Puelles L.*. Nuclear derivatives and axonal projections originating from rhombomere 4 in the mouse hindbrain. ***Brain Structure and Function 2017****, May 3. doi: 10.1007/s00429-017-1416-0. *co-last corresponding authors.*

10. Di Bonito, M. and **Studer, M.** Cellular and molecular underpinnings of neuronal assembly in the central auditory system during mouse deveopment. Review Front. Neural Circuits, ***Frontiers 2017***, *Apr 19; 11:18. doi: 10.3389/fncir.2017.00018.*

11. Flore, G., Di Ruberto, G., Parisot, J., Sannino, S., Russo, F., Illingworth, E.A. and **Studer, M.*** , De Leonibus, E.*. Gradient COUP-TFI expression is required for functional organization of the hippocampal septo-temporal longitudinal axis. ***Cerebral Cortex 2017,*** *Feb 1;27(2):1629-1643. doi: 10.1093/cercor/bhv336. *co-last corresponding authors.*

12. Glasco DM, Pike W, Qu Y, Reustle L, Misra K, Di Bonito M, **Studer M**, Fritzsch B, Goffinet AM, Tissir F, Chandrasekhar A. The atypical cadherin Celsr1 functions non-cell autonomously to block rostral migration of facial branchiomotor neurons in mice. ***Dev Biol. 2016,*** *Sep 1;417(1):40-9.* doi: 10.1016/j.ydbio.2016.07.004

13. Tonchev AB, Tuoc TC, Rosenthal EH, **Studer M,** Stoykova A. Zbtb20 modulates the sequential generation of neuronal layers in developing cortex. ***Mol Brain. 2016,*** Jun 9;9(1):65. doi: 10.1186/s13041-016-0242-2.

14. Touzot A., Ruiz Reig N., Vitalis T. and **Studer M.** Molecular control of two novel migratory paths for CGE-derived interneurons in the developing mouse brain. ***Development 2016,*** *May 15;143(10):1753-65. doi: 10.1242/dev.131102.*

15. Harb K., Magrinelli E., Nicolas C.S, Lukianets N., Frangeul L., Pietri M., Sun T., Sandoz G., Grammont F., Jabaudon D., and **Studer M.***, Alfano C.* Area-specific development of distinct neocortical neuron subclasses is regulated by postnatal epigenetic modifications. ***eLife 2016,*** *Jan 27;5. doi: 10.7554/eLife.09531.*co-last corresponding authors.*

16. Di Bonito, M., Boulland, J.L., Krezel W., Setti E. and **Studer, M.*,** Glover, J.C.* Loss of projections, functional compensation and residual deficits in the mammalian vestibulospinal system of *Hoxb1*-deficient mice; ***eNeuro 2015**, Dec 26;2(6). doi: 10.1523/ENEURO.0096-15.2015. *co-last corresponding authors.*

17. Colasante, G., Lignani, G., Rubio, A., Medrihan, L., Yekhlef, L., Sessa, A., Massimino, L., Giannelli, S.G., Sacchetti, S., Caiazzo, M., Leo, D., Alexopoulou, D., Dell'Anno, M.T., Ciabatti, E., Orlando, M., **Studer, M.,** Dahl, A., Gainetdinov, R.R., Taverna, S., Benfenati, F., and Broccoli V. Rapid Conversion of Fibroblasts into Functional Forebrain GABAergic Interneurons by Direct Genetic Reprogramming. ***Cell Stem Cell 2015,** Dec 3;17(6):719-34. doi: 10.1016/j.stem.2015.09.002.*

18. Alfano C., Magrinelli E., Harb K., Hevner R. F. and **Studer M**. Postmitotic control of sensory area specification during neocortical development. ***Nature Comm 2014,** Dec 5;5:5632. doi: 10.1038/ncomms6632.*

19. Alfano C., Kawssar H., Magrinelli E. and **Studer M.** COUP-TFs: A long lasting experience in forebrain assembly. *Review in **Cell Mol Life Sci. 2014,** Jan; 71(1):43-62. doi: 10.1007/s00018-013-1320-6.*

20. Bovetti S., Bonzano S., Garzotto D., Giannelli S.G., Iannielli A., Armentano, M., **Studer M.** and De Marchis S. COUP-TFI controls activity-dependent tyrosine hydroxylase expression in adult dopaminergic olfactory bulb interneurons. ***Development 2013,** Dec; 140(24):4850-9. doi: 10.1242/dev.089961.*

21. Di Bonito M., Glover J.C., **Studer M**. Hox genes and region-specific sensorimotor circuit formation in the hindbrain and spinal cord. ***Dev Dyn. 2013,** Dec;242(12):1348-68. doi: 10.1002/dvdy.24055.*

22. Chou S.J., Babot Z., Leingartner A., **Studer M.,** Nakagawa Y., and O'Leary D.D.M. Geniculocortical thalamic axon input drives genetic distinctions that differentiate primary and higher order visual cortical areas. ***Science 2013,** Jun 7;340(6137):1239-42. doi: 10.1126/science.1232806.*

23. Alfano C. and **Studer M.** Neocortical arealization: evolution, mechanisms and open questions. *Review in **Dev Neurobiol. 2013,** Jun;73(6):411-47. doi: 10.1002/dneu.22067.*

24. Di Bonito M., Narita Y., Mancuso M., Sequino L., Avallone B., Andolfi G., Franzè A., Puelles L., Rijli F.M. and **Studer M.** A *Hox* network is required in establishing and maintaining an auditory sensory-motor circuit in the mouse developing hindbrain. ***Plos Genetics 2013**, Feb; 9(2): e1003249. doi: 10.1371/journal.pgen.1003249.*

25. D'Angelo A., De Angelis A., Avallone B., Piscopo I., Tammaro R., **Studer M.** and Franco B. Ofd1 controls dorso-ventral patterning and axoneme elongation during embryonic brain development. ***Plos One,** 2012, 7 (12): e52937. doi: 10.1371/journal.pone.0052937. Epub 2012 Dec 27.*

26. Alfano C., Viola L., Heng J.I.T., Pirozzi M., Clarkson M., Flore G., De Maio A., Schedl A., Guillemot F. and **Studer M.** COUP-TFI promotes radial migration and proper morphology of callosal neurons by repressing Rnd2 expression. ***Development**, 2011, 138: 4685-4697**(with COVER)**.*

27. **Studer M.** The use and re-use of transcription factors during brain development. ***Dev Neurobiol.**, 2011, 71(8):663-4.*

28. Lodato S., Tomassy Srubek G., De Leonibus E., Uzcategui Y.G., Andolfi G., Armentano M., Touzot A., Gaztelu J. M., Arlotta P., Menendez de la Prida L. and **Studer M.** Loss of COUP-TFI alters the balance between caudal ganglionic eminence- and medial ganglionic eminence-derived interneurons and results in resistance to epilepsy. ***Journal of Neuroscience,** 2011, 31(12): 4650-4662*

29. Lodato S., Rouaux C., Quast K.B., Jantrachotechatchawan C., **Studer M.**, Hensch T. K. and Arlotta P. Excitatory Projection Neuron Subtypes Differentially Control the Distribution of Local Inhibitory Interneurons in the Cerebral Cortex. ***Neuron,** 2011, 69: 1-17.*

30. D'Aquino R., Tirino V., Desiderio V., **Studer M.,** Cusella De Angelis G., Laino L., De Rosa A., Di Nucci D., Sabata M., Paino F., Sampaolesi M., Papaccio G. Human neural crest-derived postnatal cells exhibit remarkable embryonic attributes either *in vitro* or *in vivo*. ***European Cells and Materials**, 2011, 21: 304-316.*

31. Srinivasan RS, Geng X, Yang Y, Wang Y, Mukatira S, **Studer M**, Porto MP, Lagutin O, Oliver G. The nuclear hormone receptor Coup-TFII is required for the initiation and early maintenance of Prox1 expression in lymphatic endothelial cells. ***Genes and Development,** 2010, 24(7): 696-707.*

32. Tomassy Srubek G., De Leonibus E., Jabaudon D., Lodato S., Alfano C., Mele A., Macklis J.D. and **Studer M**. Area-specific temporal control of corticospinal motor neuron differentiation by COUP-TFI. ***PNAS,** 2010, 107(8): 3576-81.doi: 10.1073/pnas.0911792107.*

33. Fuentealba, P., Klausberger, T., Karayannis, T., Suen, W.Y., Huck, J., Tomioka, R., Rockland, K., Capogna, M., **Studer, M.,** Morales, M., and Somogyi, P. Expression of COUP-TFII Nuclear Receptor in Restricted GABAergic Neuronal Populations in the Adult Rat Hippocampus. ***Journal of Neuroscience**, 2010, 30(5):1595-1609.*

34. Vivancos V, Chen P, Spassky N, Qian D, Dabdoub A, Kelley M, **Studer M**, Guthrie S. Wnt activity guides facial branchiomotor neuron migration, and involves the PCP pathway and JNK and ROCK kinases. ***Neural Development,** 2009, 11, 4-7*.

35. Fuentealba P., Tomioka R., Dalezios Y., Marton L., Morales M., **Studer M.,** Rockland K., Klausberger T., and Somogyi P. Rhythmically active enkephalin-expressing GABAergic cells in the CA1 area of the hippocampus project to the subiculum and preferentially innervate interneurons. ***Journal of Neuroscience**, 40, 2008, 10017-22.*

36. Hendershot T.J., Liu H., Clouthier D.E., Shepherd I.T., Coppola E., **Studer M.**, Firulli A.B., Pittman D.L., Howard M.J. Conditional deletion of Hand2 reveals critical functions in neurogenesis and cell type-specific gene expression for development of neural crest-derived noradrenergic sympathetic ganglion neurons. ***Developmental Biology** 319, 2008, 179-91.*

37. Faedo A., Srubek Tomassy G., Ruan Y., Teichmann H., Krauss S., Pleasure S.J., Tsai S.Y., Tsai M.J., **Studer M.** and Rubenstein J.L.R. COUP-TFI Coordinates Cortical Patterning,

Neurogenesis and Laminar Fate and Modulates MAPK/ERK, AKT and ß-Catenin Signaling. ***Cerebral Cortex***, 2008, 9, 2117-31.

38. Armentano M., Chou S. J., Srubek Tomassy G., Leingärtner A., O'Leary D.D.M. and **Studer M.** COUP-TFI regulates the balance of cortical patterning between frontal/motor and sensory areas. ***Nature Neuroscience****, 10, 2007, 1277-1286* ***(with COVER).***

39. **Studer M.,** Di Bonito M., Mancuso M., Franze A.M., Sequino L. and Puelles L. Contributions of rhombomere 4 and Hoxbl to hindbrain sensorimotor structures. ***J Morphol,*** *268, 2007, 1139-1139.*

40. Halilagic A., Ribes V., Ghyselinck N.B., Zile M.H., Dolle P. and **Studer M**. Retinoids control anterior and dorsal properties in the developing forebrain. ***Developmental Biology*** *303*, *2007, 362-75.*

41. Armentano M., Filosa A., Andolfi G. and **Studer M**. COUP-TFI is required for the formation of commissural projections in the forebrain by regulating axonal growth. ***Development*** *133*, *2006, 4151-4162.*

42. Ferrante M.I., Zullo A., Barra A., Bimonte S., Messaddeq N., **Studer M**., Dolle P., and Franco B. Oral-facial-digital type I protein is required for primary cilia formation and left-right axis specification. ***Nature Genetics*** *38, 2006, 112-7.*

43. Coppola E., Pattyn A., Guthrie S., Goridis C. and **Studer M.** Reciprocal gene replacements reveal unique functions for Phox2 paralogous homeobox genes during neural differentiation. ***EMBO Journal*** *24, 2005, 4392-403.*

44. **Studer M.*,** Filosa A. and Rubenstein J.L.R. The nuclear receptor COUP-TFI represses differentiation of Cajal-Retzius cells. *corresponding author. ***Brain Research Bulletin*** *66, 2005, 394-401.*

45. Tripodi M., Filosa A., Armentano M. and **Studer M.** The nuclear receptors COUP-TFs regulate cell migration in the mammalian basal forebrain. ***Development*** *131, 2004, 6119-29*.

46. Halilagic A., Zile M.H. and **Studer M.** A novel role for retinoids in patterning the avian forebrain during presomite stages. ***Development*** *130, 2003, 2039-2050.*

47. **Studer M.** Initiation of facial motor neuron migration is dependent on rhombomeres 5 and 6. ***Development*** *128, 2001, 3707-3716.*

48. Pata I.[*], **Studer M**.[*], van Doorninck H., Briscoe J., Kuuse S., Engel J.D., Grosveld F. and Karis A. The transcription factor GATA3 is a downstream effector of *Hoxb1* specification in rhombomere 4. (* joint first authors). ***Development*** *126, 1999, 5523-5531****.***

49. **Studer M.,** Gavalas A., Marshall H., Ariza-McNaughton L., Chambon P. and Krumlauf R. Genetic interactions between *Hoxa1* and *Hoxb1* reveal new roles in regulation of early hindbrain patterning. ***Development*** *125, 1998, 1025-1036.*

50. Gavalas A.*, **Studer M.***, Lumsden A., Rijli F., Krumlauf R. and Chambon P.

Hoxa1 and *Hoxb1* synergize in patterning the hindbrain, cranial nerves and second pharyngeal arch. **(*** joint first authors). ***Development*** *125, 1998, 1123-1136.*

51. Krumlauf R., Manzanares M., Nonchev S., Maconochie M., Gould A., Morrison A., Pöpperl H., **Studer M**., Cordes S. and Barsh G. Regulation of hindbrain segmentation. ***Developmental Biology****, 1997, 186(2), 254.*

52. Krumlauf R., Manzanares M., Nonchev S., Maconochie M., Gould A., Morrison A., Pöpperl H., **Studer M**., Cordes S. and Barsh G. Conserved mechanisms in the regulation of hindbrain segmentation in vertebrates. ***Journal of Neurochemistry****, 1997, 69 (Suppl), S55.*

53. Maconochie M., Nonchev S., **Studer M.,** Chan S.K., Pöpperl H., Sham M.H., Mann R.S. and Krumlauf R. Cross-regulation in the mouse *HoxB* complex: the expression of *Hoxb2* in rhombomere 4 is regulated by *Hoxb1*. ***Genes & Development*** *11, 1997, 1885-1895.*

54. **Studer M.**, Lumsden A., Ariza-McNaughton L., Bradley A. and Krumlauf R. Altered segmental identity and abnormal migration of motor neurons in mice lacking *Hoxb-1.* ***Nature*** *384, 1996, 630-634.*

55. Marshall H., Morrison A., **Studer M.**, Pöpperl H. and Krumlauf R. Retinoids and *Hox* genes. ***The FASEB Journal****, 1996, Vol.10, 969-978.*

56. Pöpperl H., Bienz M., **Studer M.**, Chan S.K., Aparicio S., Brenner S., Mann R.S. and Krumlauf R. Segmental expression of *Hoxb-1* is controlled by a highly conserved autoregulatory loop dependent upon exd/Pbx. ***Cell*** *81, 1995, 1031-1042.*

57. **Studer M.**, Marshall H., Pöpperl H., Kuroiwa A. and Krumlauf R. Genetic mechanisms responsible for pattern formation in the vertebrate hindbrain: regulation of *Hoxb-1*. *Neural Cell Specification: Molecular Mechanisms and Neurotherapeutic*. *Implications; Altschul Symposia Series, Vol. 3, Plenum press, New York, 1995, pp17-28****.***

58. **Studer M.**, Pöpperl H., Marshall H., Kuroiwa A. and Krumlauf R. Requirement of a conserved retinoic acid response element in rhombomere-restricted expression of *Hoxb-1*. ***Science*** *265, 1994, 1728-1732.*

59. Marshall H., **Studer M.**, Pöpperl H., Aparicio S., Kuroiwa A., Brenner S. and Krumlauf R. A conserved retinoic acid response element is required to establish early expression of *Hoxb-1*. ***Nature*** *370, 1994, 567-571.*

60. Krumlauf R., Marshall H., **Studer M.**, Nonchev S., Sham M.H. and Lumsden A. *Hox* homeobox genes and regionalisation of the nervous system. ***Journal of Neurobiology*** *24, 1993, 1328-1340.*

61. **Studer M.**, Terao M., Gianni M. and Garattini E. Characterization of a second promoter for the mouse liver/bone/kidney-type alkaline phosphatase gene: cell and tissue specific expression. ***Biochemical and Biophysical Research Communications*** *179, 1991, 1352-1360.*

62. Gianní M., **Studer M.**, Carpani G., Terao M. and Garattini E. Retinoic acid induces liver/bone/kidney-type alkaline phosphatase gene expression in F9 teratocarcinoma cells. ***Biochemical Journal*** *274, 1991, 673-678.*

63. Terao M., **Studer M.**, Gianní M. and Garattini E. Isolation and characterization of the mouse liver/bone/kidney-type alkaline phosphatase gene. ***Biochemical Journal*** *268, 1990, 641-648.*

64. Terao M., Tabe L., Garattini E., Sartori D., **Studer M.** and Mintz B. Isolation and characterization of variant cDNAs encoding mouse tyrosinase. *Biochemical and* ***Biophysical Research Communications*** *159, 1989, 848-853.*

65. Stanyon R., **Studer M.**, Dragone A., De Benedectis G. and Brancati C. Population cytogenetics of Albanians in the province of Cosenza (Italy): frequency of Q and C band variants. ***International Journal of Anthropology*** *3, 1988, 19-29.*

MAJOR PUBLICATIONS (max 10):

66. Flore, G., Di Ruberto, G., Parisot, J., Sannino, S., Russo, F., Illingworth, E.A. and **Studer, M.***, De Leonibus, E.*. Gradient COUP-TFI expression is required for functional organization of the hippocampal septo-temporal longitudinal axis. ***Cerebral Cortex 2017,*** *Feb 1;27(2):1629-1643. doi: 10.1093/cercor/bhv336. *co-last corresponding authors.*

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