

CURRICULUM VITAE - Stefano Sensi, M.D., Ph.D.

Present Position:

Professor of Neurology University of Chieti-Pescara, Chieti, Italy

Head of the Molecular Neurology Unit, CeSI-CAST

Visiting Professor of Neurology and Pharmacology, University of California-Irvine

Dean of the School of Occupational Therapy, University "G. d'Annunzio", Chieti, Italy

Academic Positions/Employment:

Research Associate in Neurology at the Center for the Study of Neural Injury directed by Dennis Choi, Washington University, St. Louis (02/92-08/97)

Visiting Researcher in Neurology at the University of California at Irvine (10/97-06/98)

Assistant Adjunct Professor in Neurology at the University of California at Irvine (07/98-06/02)

Researcher (tenured position) in Neurology at the University of Chieti-Pescara, (05/2000-03/2006)

Associate Adjunct Professor in Neurology at the University of California at Irvine (07/02-present time)

Adjunct Professor in Neurology at the University of Texas Medical Branch, Galveston (12/05- present time)

Associate Professor in Rehabilitative Neurology and Psychiatry at the University of Chieti-Pescara (04/06-08-2017)

Full Professor of Neurology at the University of Chieti-Pescara

Dean School of Occupational Therapy, University "G. d'Annunzio", Chieti, Italy (06/06-present time)

Associate Adjunct Professor in Pharmacology University of California at Irvine (07/12-07/2017)

Honors and Awards:

Medical degree Magna cum Laude; Residency Degree in Neurology Magna cum Laude

1999 NIH K01 Award 1999-2004

2001 UCI –College of Medicine Research Award

2002 Van den Noort Award for outstanding research by a junior faculty of the Dept. of Neurology

Professional Societies and Organizations:

Italian Society of Neurology ; Italian Society for the Study of Alzheimer's Disease and Dementia (SINDEM); Italian Society of Physiology; European Society for Neuroscience; American Academy of Neurology; Society for Neuroscience; Founding member of the International Society for Zinc Biology; Member of the Steering Committee of the International Society for Zinc Biology; (2008-2010). Member of the Steering Committee of the SINDEM: 2014-present time)

Funding support

- Principal Investigator-National Institutes of Health, National Institute on Aging KO1Award 5 K01 AG000919-03, PHYSIOLOGY OF ZINC PERMEABLE AMPA/KAINATE RECEPTORS, (04/99 to 04/04- \$ 525.000,00).
- Consultant FIRB 2003 "Protein Misfolding", (70.000,00 Euro 3 yrs).
- Principal Investigator research Unit PRIN 2004 "Interazioni neuroni-glia nei meccanismi di neurodegenerazione e neuroprotezione" (50.000,00 Euro 2 yrs).
- Co-Principal Investigator-NIH-RO1 NINDS 5R01NS036548-092005 "AMPA/Kainate Receptors, Free Radicals, and Motor Neuron Injury" (\$1.250.000,00 5 yrs).

- Principal Investigator Research Unit PRIN 2006 “Chelazione dello Zinco e inibizione del proteasome in un modello animale di Alzheimer disease” (85.000,00 Euro; 2 yrs).
- Principal Investigator: “Role Of Exanamide in synaptic dysfunction in triple 3xTG-AD mice” by Lilly-Amylin. (\$ 75.000; 2008- 1 yr).
- PI research Unit Progetto Ordinario del Ministero del Welfare “Repetitive Transcranial Magnetic Stimulation as a novel therapeutic approach for Amyotrophic Lateral Sclerosis” (52.000 Euro; 09-2008- 2 yrs).
- Principal Investigator Progetto Ordinario di Ricerca Clinica 2014 Italian Ministry of Health “Effects of Multimodal Training on cognition, biomarkers, rs-fMRI, and brain structural integrity in MCI patients RF-2013-02355949- 2015-2020 (5 yrs 732.736,00 Euro).
- -Co-Investigator Progetto Nazionale di Rete del Ministero della Salute 2011 “Current and innovative body fluids biomarkers for AD diagnosis in pre-dementia phase and recognition of atypical forms”- NET-2011-02346784-1 (3 yrs 2.1 MI Euro; 30.000 Euro).
- Principal Investigator “Extenzin-based therapy for MCI subjects” Alzheimer's Association Part the Cloud: Translational Research Funding for Alzheimer's Disease (PTC) PTC-19-602325 \$748,440.0 (02/01/2019-01/31/2022)
- Principal Investigator “Cerebellum, a neglected AD target?” Alzheimer's Association AGAIN Exploration to Evaluate Novel Alzheimer"GEENA-Q-19-596282 \$25,000.00 02/01/2019-01/31/2020
- Principal Investigator and supervisor “iPS-derived Microglia and Neuroinflammation in Dementia (iMIND)” [Grant Agreement – 841665–iMIND] – European Commission - Marie Skłodowska-Curie Actions - H2020-MSCA-IF-2018 – Amount: € 269.002,56 – 12/2019-12/2022

PATENTS AND SPIN-OFF

- CEO of the academic Spin-Off “Health Systems” . The spin off of the University G.d'Annunzio Chieti-Pescara is developing hardware and software in the telecare telemedicine fields (09/2016-11-2019)

H-Factor: 46(Scopus); Citations: >9500; Average citations per item: 85.3

Most relevant peer reviewed articles

1. DUGAN L.L., **SENSI S.L.**, CANZONIERO L.M.T., HANDRAN S.H., ROTHMAN S.M., GOLDBERG M.P. and CHOI D.W. Mitochondrial production of reactive oxygen species in cortical neurons following exposure to N-methyl-D aspartate. **J.Neurosci.** 15: 6377-6388, 1995.
2. YU S.P., YE H.C.H., **SENSI S.L.**, GWAG B. J., CANZONIERO L.M.T, FARHANGRAZI Z.S., YING H. S., TIAN M., DUGAN L.L. and CHOI D.W. Neuronal apoptosis is mediated by enhancement of outward potassium current and potassium efflux. **Science** 278:114-117, 1997.

3. **SENSI S.L.**, CANZONIERO L.M.T., YU S.P., YING H.S., KOH J.Y., KERCHNER G.A., CHOI D.W. Measurement of intracellular free zinc in living cortical neurons: routes of entry. **J. Neurosci.** 17: 9554-9564, 1997.
4. **SENSI S.L.**, YIN H.Z., CARRIEDO S.G., WEISS J.H. Preferential Zn²⁺ influx through Ca²⁺ permeable AMPA/kainate channels triggers prolonged mitochondrial superoxide production. **PNAS** 96:2414-9, 1999.
5. **SENSI S.L.**, TON-THAT D., SULLIVAN P.G., JONAS E.A., GEE K.R., KACZMAREK L.K., WEISS J.H. Modulation of mitochondrial function by endogenous Zn²⁺ pools, **PNAS**, 100:6157-62, 2003
6. PALTY R, SILVERMAN WF, HERSHFINKEL M, CAPORALE T, **SENSI S.L.**, PARNIS J, NOLTE C, FISHMAN D, SHOSHAN-BARMATZ V, HERRMANN S, KHANANSHVILI D, SEKLER I. NCLX is an essential component of mitochondrial Na⁺/Ca²⁺ exchange. **PNAS** 2010 Jan 5;107(1):436-41. Epub 2009 Dec 15.
7. C CORONA, F MASCIOPINTO, E SILVESTRI, A DEL VISCOVO, R LATTANZIO, R LA SORDA, D CIAVARDELLI, F GOGLIA, M PIANTELLI, L M T CANZONIERO, **SENSI S.L.**. Dietary zinc supplementation of 3xTg-AD mice increases BDNF levels and prevents cognitive deficits as well as mitochondrial dysfunction. **Cell Death & Disease**, vol. e91; p. 1-8, doi: 10.1038/cddis.2010.73 (2010)
8. PIERAMICO V, ESPOSITO R, SENSI F, CILLI F, MANTINI D, MATTEI PA, FRAZZINI V, CIAVARDELLI D, GATTA V, FERRETTI A, ROMANI GL, **SENSI S.L.**. Combination Training in aging individuals modifies functional connectivity and cognition, and is potentially affected by dopamine-related genes. **PlosOne**, 2012;7(10):e46649
9. GRANZOTTO A, **SENSI S.L.**. Intracellular zinc is a critical intermediate in the excitotoxic cascade. **Neurobiol Dis**. 2015 Sep;81:25-37. doi: 10.1016/j.nbd.2015.04.010. Epub 2015 May 1.
10. S. DELLI PIZZI, M PUNZI, **SENSI S.L.**. Alzheimer's Disease Neuroimaging Initiative Functional signature of conversion of Mild Cognitive Impairment patients. **Neurobiology of Aging** 2019 Feb;74:21-37. doi: 10.1016/j.neurobiolaging.2018.10.004. Epub 2018 Oct 12

Publications peer-reviewed of the last 10 years:

11. CORDEIRO, M. F., GUO L., COXON K. M., DUGGAN J., NIZARI S., NORMANDO E. M., **SENSI S.L.**, SILLITO A. M., FITZKE F. W., SALT T. E., MOSS S. E. Imaging multiple phases of neurodegeneration: a novel approach to assessing cell death in vivo **Cell Death & Disease** Volume: 1 Pages: Article No.: e3 Published: JAN 2010
12. PALTY R, SILVERMAN WF, HERSHFINKEL M, CAPORALE T, **SENSI S.L.**, PARNIS J, NOLTE C, FISHMAN D, SHOSHAN-BARMATZ V, HERRMANN S, KHANANSHVILI D, SEKLER I. NCLX is an

essential component of mitochondrial Na⁺/Ca²⁺ exchange. *PNAS* 2010 Jan 5;107(1):436-41. Epub 2009 Dec 15.

13. FATTORETTI P, BALIETTI M, CASOLI T, GIORGETTI B, DI STEFANO G, BERTONI-FREDDARI C, LATTANZIO F, **SENSI S.L.** Decreased numeric density of succinic dehydrogenase-positive mitochondria in CA1 pyramidal neurons of 3xTg-AD mice. *Rejuvenation Res.* 2010 Apr-Jun;13(2-3):144-7.
14. GIBON J, TU P, FRAZZINI V, **SENSI S.L.**, BOURON A. The thiol-modifying agent N-ethylmaleimide elevates the cytosolic concentration of free Zn(2+) but not of Ca(2+) in murine cortical neurons. *Cell Calcium*. 2010 Jul 25. [Epub ahead of print] PubMed PMID: 20667413.
15. D CIAVARDELLI, E SILVESTRI, A DEL VISCOVO, M BOMBA, D DE GREGORIO, M MORENO, C DI ILIO, F GOGLIA, L M T CANZONIERO, **SENSI S.L.** (2010). Alterations of brain and cerebellar proteomes linked to A β and tau pathology in a female triple-transgenic murine model of Alzheimer's disease. *Cell Death & Disease*, vol. e90; p. 1-11
16. C CORONA, F MASCIOPINTO, E SILVESTRI, A DEL VISCOVO, R LATTANZIO, R LA SORDA, D CIAVARDELLI, F GOGLIA, M PIANTELLI, L M T CANZONIERO, **SENSI S.L.** Dietary zinc supplementation of 3xTg-AD mice increases BDNF levels and prevents cognitive deficits as well as mitochondrial dysfunction. *Cell Death & Disease*, vol. e91; p. 1-8, doi: 10.1038/cddis.2010.73 (2010)
17. NUTINI M, FRAZZINI V, MARINI C, SPALLONI A, **SENSI S.L.**, LONGONE P. Zinc pre-treatment enhances NMDAR-mediated excitotoxicity in cultured cortical neurons from SOD1(G93A) mouse, a model of amyotrophic lateral sclerosis. *Neuropharmacology*. 2010 Nov 5. [Epub ahead of print]
18. GATTA V, DRAGO D, FINCATI K, VALENTI MT, DALLE CARBONARE L, **SENSI S.L.**, ZATTA P. Microarray analysis on human neuroblastoma cells exposed to aluminum, β (1-42) amyloid or the β (1-42) amyloid aluminum complex. *PLoS One*. Jan 27;6(1):e15965 (2011).
19. CORONA C., FRAZZINI V., SILVESTRI E., LATTANZIO R, LA SORDA R., PIANTELLI M., CANZONIERO M.L.T., CIAVARDELLI D., RIZZARELLI E., **SENSI S.L.** Effects of Dietary Supplementation of Carnosine on Mitochondrial Dysfunction, Amyloid Pathology, and Cognitive Deficits in 3xTg-AD Mice. *PLoS ONE* 6(3): e17971. (2011).
20. CORONA C., PENSALFINI A., FRAZZINI V., **SENSI S.L.** New therapeutic targets in Alzheimer's disease: brain deregulation of calcium and zinc. *Cell Death Dis.* 2011 Jun 23;2:e176. doi: 10.1038/cddis.2011.57.
21. **SENSI S.L.**, PAOLETTI P, KOH JY, AIZENMAN E, BUSH AI, HERSHFINKEL M. The neurophysiology and pathology of brain zinc. *J Neurosci*. 2011 Nov 9;31(45):16076-85. Review.

22. GATTA V, GRANZOTTO A, FINCATI K, DRAGO D, ZATTA P, **SENSI S.L.**, Microarray analysis of gene expression profiles in human neuroblastoma cells exposed to A β --Zn or A β --Cu complexes. *Future Neurology*. July 2012, Vol. 7, No. 4 , Pages 483-497
23. PIERAMICO V, ESPOSITO R, SENSI F, CILLI F, MANTINI D, MATTEI PA, FRAZZINI V, CIAVARDELLI D, GATTA V, FERRETTI A, ROMANI GL, **SENSI S.L.**. Combination Training in aging individuals modifies functional connectivity and cognition, and is potentially affected by dopamine-related genes. *PlosOne*, 2012;7(10):e46649
24. NITA II, HERSHFINKEL M, FISHMAN D, OZERI E, RUTTER GA, **SENSI S.L.**, KHANANSHVILI D, LEWIS EC, SEKLER I. The mitochondrial Na⁺/Ca²⁺ exchanger upregulates glucose dependent Ca²⁺ signalling linked to insulin secretion. *PLoS One*. 2012;7(10):e46649.
25. CIAVARDELLI D, CONSALVO A, CALDARALO V, DI VACRI ML, NISI S, CORONA C, FRAZZINI V, SACCHETTA P, URBANI A, DI ILIO C, **SENSI S.L.**. Characterisation of element profile changes induced by long-term dietary supplementation of zinc in the brain and cerebellum of 3xTg-AD mice by alternated cool and normal plasma ICP-MS. *Metallomics*. 2012 Dec;4(12):1321-32.
26. MASCIOPINTO F, DI PIETRO N, CORONA C, BOMBA M, PIPINO C, CURCIO M, DI CASTELNUOVO A, CIAVARDELLI D, SILVESTRI E, CANZONIERO LM, SEKLER I, PANDOLFI A, **SENSI S.L.** Effects of long-term treatment with pioglitazone on cognition and glucose metabolism of PS1-KI, 3xTg-AD, and wild-type mice. *Cell Death Dis*. 2012 Dec 20;3:e448.
27. BOMBA M, CIAVARDELLI D, SILVESTRI E, CANZONIERO LM, LATTANZIO R, CHIAPPINI P, PIANTELLI M, DI ILIO C, CONSOLI A, **SENSI S.L.**. Exenatide promotes cognitive enhancement and positive brain metabolic changes in PS1-KI mice but has no effects in 3xTg-AD animals. *Cell Death Dis*. 2013 May 2;4:e612. doi: 10.1038/cddis.2013.139.
28. ESPOSITO R, CILLI F, PIERAMICO V, FERRETTI A, MACCHIA A, TOMMASI M, SAGGINO A, CIAVARDELLI D, MANNA A, NAVARRA R, CIERI F, STUPPIA L, TARTARO A, **SENSI S.L.**. Acute effects of modafinil on brain resting state networks in young healthy subjects. *PLoS One*. 2013 Jul 25;8(7):e69224. doi: 10.1371/journal.pone.0069224. Print 2013.
29. CANZONIERO LM, GRANZOTTO A, TURETSKY DM, CHOI DW, DUGAN LL, **SENSI S.L.**. nNOS(+) striatal neurons, a subpopulation spared in Huntington's Disease, possess functional NMDA receptors but fail to generate mitochondrial ROS in response to an excitotoxic challenge. *Front Physiol*. 2013;4:112. doi: 10.3389/fphys.2013.00112.
30. ESPOSITO R, MOSCA A, PIERAMICO V, CIERI F, CERA N, **SENSI S.L.**. Characterization of resting state activity in MCI individuals. *PeerJ*. 2013 Aug 20;1:e135. doi: 10.7717/peerj.135.
31. BONANNI L, BONTEMPO G, BORRELLI I, BIFOLCHETTI S, BUONGARZONE MP, CARLESI N, CAROLEI A, CICCOCIOPO F, COLANGELO U, COLONNA G, DESIDERIO M, FERRETTI S, FIORELLI L, D'ALESSIO O, D'AMICO A, D'AMICO MC, DE LUCIA R, DEL RE L, DI BLASIO F, DI GIACOMO R, DI IORIO A, DI SANTO E, DI GIUSEPPE M, FELICE N, LITTERIO P, GABRIELE A,

MANCINO E, MANZOLI L, MARUOTTI V, MEARELLI S, MOLINO G, MONACO D, NUCCETELLI F, ONOFRJ M, PERFETTI B, SACCHET C, SENSI F, **SENSI S.L.**, SUCAPANE P, TAYLOR JP, THOMAS A, VIOLA P, VIOLA S, ZITO M, ZHUZHUNI H. . Ascertainment bias in dementias: a secondary to tertiary centre analysis in Central Italy and conceptual review. *Aging Clin Exp Res*. 2013 Jun;25(3):265-74. doi: 10.1007/s40520-013-0039-4. Epub 2013 Jun 20.

32. GATTA V, D'AURORA M, GRANZOTTO A, STUPPIA L, **SENSI S.L.** Early and sustained altered expression of aging-related genes in young 3xTg-AD mice. *Cell Death Dis*. 2014 Feb 13;5:e1054. doi: 10.1038/cddis.2014.11.
33. CANTANELLI P, SPERDUTI S, CIAVARDELLI D, STUPPIA L, GATTA V, **SENSI S.L.** Age-Dependent Modifications of AMPA Receptor Subunit Expression Levels and Related Cognitive Effects in 3xTg-AD Mice. *Front Aging Neurosci*. 2014 Aug 5;6:200. doi: 10.3389/fnagi.2014.00200. eCollection 2014.
34. PIERAMICO V, ESPOSITO R, CESINARO S, FRAZZINI V, **SENSI S.L.** Effects of non-pharmacological or pharmacological interventions to promote cognition and brain plasticity in aging individuals. *Frontiers in Systems Neuroscience* Sep 2;8:153. doi: 10.3389/fnsys.2014.00153. eCollection 2014. Review.
35. CERA N, TARTARO A, **SENSI S.L.** Modafinil alters intrinsic functional connectivity of the right posterior insula: a pharmacological resting state fMRI study. *PLoS One*. 2014 Sep 19;9(9):e107145. doi: 10.1371/journal.pone.0107145. eCollection 201
36. MANNA A, PIRAS F, CALTAGIRONE C, BOSSU M, **SENSI S.L.**, SPALLETTA G. Left hippocampus-amygdala complex macro-microstructural variation is associated with BDNF plasma levels in healthy elderly individuals. *Brain Behav*. 2015 Jul;5(7):e00334. doi: 10.1002/brb3.334. Epub 2015 May 26.
37. GRANZOTTO A, **SENSI S.L.** Intracellular zinc is a critical intermediate in the excitotoxic cascade. *Neurobiol Dis*. 2015 Sep;81:25-37. doi: 10.1016/j.nbd.2015.04.010. Epub 2015 May 1.
38. ISOPI E, GRANZOTTO A, CORONA C, BOMBA M, CIAVARDELLI D, CURCIO M, CANZONIERO LM, NAVARRA R, LATTANZIO R, PIANTELLI M, **SENSI S.L.** Pyruvate prevents the development of age-dependent cognitive deficits in a mouse model of Alzheimer's disease without reducing amyloid and tau pathology. *Neurobiol Dis*. 2014 Nov 28. pii: S0969-9961(14)00358-1. doi: 10.1016/j.nbd.2014.11.013. [Epub ahead of print]
39. CIAVARDELLI D, PIRAS F, CONSALVO A, ROSSI C, ZUCCHELLI M, DI ILIO C, FRAZZINI V, CALTAGIRONE C, SPALLETTA G, **SENSI S.L.** Medium-chain plasma acylcarnitines, ketone levels, cognition, and gray matter volumes in healthy elderly, mildly cognitively impaired, or Alzheimer's disease subjects. *Neurobiol Aging*. 2016 Jul;43:1-12. doi: 10.1016/j.neurobiolaging.2016.03.005. Epub 2016 Mar 15.

40. FRAZZINI V, GUARNIERI S, BOMBA M, NAVARRA R, MORABITO C, MARIGGIÒ MA, **SENSI S.L.**. Altered Kv2.1 functioning promotes increased excitability in hippocampal neurons of an Alzheimer's disease mouse model. **Cell Death Dis.** 2016 Feb 18;7:e2100. doi: 10.1038/cddis.2016.18.
41. M PUNZI, T GILI, L PETROSINI, C CALTAGIRONE, G SPALLETTA, **SENSI S.L.**. Modafinil-Induced Changes in Functional Connectivity in the Cortex and Cerebellum of Healthy Elderly Subjects *Frontiers in Aging Neuroscience* 9, 85, 2017 Exenatide exerts cognitive effects by modulating the BDNF-TrkB neurotrophic axis in adult mice
42. M BOMBA, A GRANZOTTO, V CASTELLI, N MASSETTI, E SILVESTRI, L.M.T. CANZONIERO, AM. CIMINI, **SENSI S.L.**. Exenatide exerts cognitive effects by modulating the BDNF-TrkB neurotrophic axis in adult mice **Neurobiol Aging** in press.
43. M BOMBA, A GRANZOTTO, V CASTELLI, N MASSETTI, E SILVESTRI, L M.T. CANZONIERO, AM CIMINI, **SENSI S.L.**. Exenatide exerts cognitive effects by modulating the BDNF-TrkB neurotrophic axis in adult mice **Neurobiology of Aging** in press, DOI: <http://dx.doi.org/10.1016/j.neurobiolaging.2017.12.009>
44. BONANNI L, CAGNIN A, AGOSTA F, BABILONI C, BORRONI B, BOZZALI M, BRUNI AC, FILIPPI M, GALIMBERTI D, MONASTERO R, MUSCIO C, PARNETTI L, PERANI D, SERRA L, SILANI V, TIRABOSCHI P, PADOVANI A; DLB-SINdem study group. The Italian dementia with Lewy bodies study group (DLB-SINdem): toward a standardization of clinical procedures and multicenter cohort studies design. **Neurol Sci.** 2017 Jan;38(1):83-91. doi: 10.1007/s10072-016-2713-8. Epub 2016 Sep 13.
45. V FRAZZINI, A GRANZOTTO, M BOMBA, N MASSETTI, V CASTELLI, M D'AURORA, M PUNZI, M IORIO, A MOSCA, S DELLI PIZZI, V GATTA, AM CIMINI, **SENSI S.L.**. The pharmacological perturbation of brain zinc impairs BDNF-related signalling and the cognitive performances of young mice **Scientific Reports** /doi.org/10.1101/267609
46. S DELLI PIZZI, M PUNZI, **SENSI S.L.**. Functional signature of conversion in Mild Cognitive Impairment patients **BioRxiv** 290783; doi: <https://doi.org/10.1101/290783>
47. MOSCA A, SPERDUTI S, POP V, CIAVARDELLI D, GRANZOTTO A, PUNZI M, STUPPIA L, GATTA V, ASSOGLA F, BANAJ N, PIRAS F, PIRAS F, CALTAGIRONE C, SPALLETTA G, **SENSI S.L.**. Influence of *APOE* and *RNF219* on Behavioral and Cognitive Features of Female Patients Affected by Mild Cognitive Impairment or Alzheimer's Disease. **Front Aging Neurosci.** 2018 Apr 13;10:92. doi: 10.3389/fnagi.2018.00092. eCollection 2018.
48. FRAZZINI V, GRANZOTTO A, BOMBA M, MASSETTI N, CASTELLI V, D'AURORA M, PUNZI M, IORIO M, MOSCA A, DELLI PIZZI S, GATTA V, CIMINI A, **SENSI S.L.**. The pharmacological perturbation of brain zinc impairs BDNF-related signaling and the cognitive performances of young mice. **Sci Rep.** 2018 Jun 27;8(1):9768. doi: 10.1038/s41598-018-28083-9.

49. **SENSI S.L.** Alzheimer's disease time to turn the tide ***Aging*** (Albany NY). 2018 Oct 13. doi: 10.18632/aging.101581.
50. BREM AK, **SENSI S.L.** Towards Combinatorial Approaches for Preserving Cognitive Fitness in Aging. ***Trends Neurosci.*** 2018 Oct 18. pii: S0166-2236(18)30255-8. doi: 10.1016/j.tins.2018.09.009.
51. **SENSI S.L.**, GRANZOTTO A, SIOTTO M, SQUITTI R. Copper and Zinc Dysregulation in Alzheimer's Disease. ***Trends Pharmacol Sci.*** 2018 Oct 20. pii: S0165-6147(18)30179-2. doi: 10.1016/j.tips.2018.10.001. [Epub ahead of print] Review.
52. S. DELLI PIZZI, M PUNZI, **SENSI S.L.** Alzheimer's Disease Neuroimaging Initiative Functional signature of conversion of Mild Cognitive Impairment patients. ***Neurobiology of Aging*** 2019 Feb;74:21-37. doi: 10.1016/j.neurobiolaging.2018.10.004. Epub 2018 Oct 12
53. VOZELLA V, BASIT A, PIRAS F, REALINI N, ARMIROTTI A, BOSSÙ P, ASSOGNA F, **SENSI S.L.**, SPALLETTA G, PIOMELLI D. Elevated plasma ceramide levels in post-menopausal women: a cross-sectional study. *Aging* (Albany NY). 2019 Jan 8. doi: 10.18632/aging.101719. [Epub ahead of print]
54. BOMBA M, GRANZOTTO A, CASTELLI V, ONOFRJ M, LATTANZIO R, CIMINI A, **SENSI S.L.** Exenatide reverts the high-fat-diet-induced impairment of BDNF signaling and inflammatory response in an animal model of Alzheimer's disease". ***Journal of Alzheimer's Disease*** in press
55. ONOFRJ M, ESPAY AJ., BONANNI L, DELLI PIZZI S, **SENSI SL.** Hallucinations, Somatic-Functional Disorders of PD-DLB as Expressions of Thalamic Dysfunction. ***Movement disorders*** Aug;34(8):1100-1111. doi: 10.1002/mds.27781. Epub 2019 Jul 15. Review.
56. DI IOIA M, DI STEFANO V, FARINA D, DI TOMMASO V, TRAVAGLINI D, PIETROLONGO E, **SENSI SL**, ONOFRJ M, DE LUCA G. Alemtuzumab treatment of multiple sclerosis in real-world clinical practice: A report from a single Italian center. ***Mult Scler Relat Disord.*** 2019 Nov 6;38:101504.
57. GRANZOTTO A, BOMBA M, CASTELLI V, NAVARRA R, MASSETTI N, D'AURORA M, ONOFRJ M, CICALINI I, DEL BOCCIO P, GATTA V, CIMINI A, PIOMELLI D, **SENSI SL.** Inhibition of de novo ceramide biosynthesis affects aging phenotype in an in vitro model of neuronal senescence. ***Aging*** (Albany NY). 2019 Aug 29;11(16):6336-6357. doi: 10.18632/aging.102191. Epub 2019 Aug 29.
58. CARRARINI C, RUSSO M, DONO F, DI PIETRO M, RISPOLI MG, DI STEFANO V, FERRI L, BARBONE F, VITALE M, THOMAS A, **SENSI SL**, ONOFRJ M, BONANNI L. A Stage-Based Approach to Therapy in Parkinson's Disease. ***Biomolecules.*** 2019 Aug 20;9(8). pii: E388. doi: 10.3390/biom9080388. Review.
59. DI IOIA M, DI STEFANO V, FARINA D, DI TOMMASO V, TRAVAGLINI D, PIETROLONGO E, **SENSI S.L.**, ONOFRJ M, DE LUCA G Data of safety in a single-center alemtuzumab treated

population. **Data Brief**. 2020 Feb 28;29:105341. doi: 10.1016/j.dib.2020.105341. eCollection 2020 Apr.

60. RUSSO M, CARRARINI C, DONO F, DI STEFANO V, DE ANGELIS MV, ONOFRJ M, **SENSI S.L.**
Posterior Variant of Alien Limb Syndrome with Sudden Clinical Onset as Self-Hitting
associated with Thalamic Stroke. **Case Rep Neurol**. 2020 Jan 15;12(1):35-39. doi:
10.1159/000503857. eCollection 2020 Jan-Apr.