

CURRICULUM VITAE

**STEFANO L. SENSI
2020**

Attività di ricerca:

Le attività di ricerca dell'Unità di Neurologia Molecolare, da me diretta, si svolgono presso il Centro di Studi e Tecnologie Avanzate (CAST) dell'Università G. d'Annunzio, l'unico centro di eccellenza Italiano dedicato alle tematiche dell'invecchiamento. Un primo filone di ricerca del nostro gruppo è incentrato su ambiti di ricerca preclinica ed è volto a valutare, in modelli di malattie neurodegenerative, i meccanismi di disomeostasi ionica associata a processi di morte neuronale in condizioni di sovrastimolazione dei recettori del glutammato. Le nostre ricerche hanno avuto ed hanno come oggetto il ruolo neurotossico del glutammato, le alterazioni della funzione mitocondriale e lo stress ossidativo ad esso conseguenti ed valutano i meccanismi che portano all'attivazione di pathways di morte apoptotica, necrotica ed autofagica. Tali processi sono valutati su modelli preclinici di malattie quali Alzheimer, Huntington's disease, Amyotrophic Lateral Sclerosis e stroke impiegando, in vivo ed in vivo, un'ampia gamma di tecniche (ionic imaging, elettrofisiologia, proteomica, genomica). In parallelo, il gruppo porta anche avanti un filone di ricerca clinica volto a valutare l'efficacia di trattamenti farmacologici e non nell'ambito di processi cognitivi di soggetti anziani o affetti da Mild Cognitive Impairment e/o franca demenza. Tali studi si avvalgono di tecniche strumentali quali Risonanza Magnetica strutturale e funzionale MEG, EEG e sono condotti in associazione ad analisi di carattere "omico" (proteomics, lipidomics, metabolomics, genomics). I nostri studi hanno e hanno avuto ampia risonanza internazionale (si veda lo speciale di Nature - sezione Outlook del Marzo 2016 sull'uso di cognitive enhancers) e sono stati oggetto di importanti finanziamenti nazionali ed internazionali. Grazie ad un mio joint appointment come faculty presso l'University of California-Irvine (UCI), il gruppo lavora in sinergia con l'UCI Institute for Memory Impairments and Neurological Disorders (UCI MIND) e con la School of Medicine della UCI con la quale si è instaurato da anni un rapporto di convenzione. Il gruppo ha anche attivamente collaborato, producendo rapporti di convenzione, con l'IRCCS Santalucia di Roma e IIT di Genova. Molto numerose sono le collaborazioni con gruppi di ricerca internazionali quali quelli dei Prof. Dennis W. Choi (Stony Brook University, NY, USA), Prof. Ashley I. Bush (University of Melbourne, Australia), Prof. Elias Aizenman (University of Pittsburg, USA), Prof. Daniele Piomelli (UCI/USA), Prof. Jae-Young Koh (Ulsan University, Seoul, South Korea), Prof. Michal Hershfinkel (Ben Gurion University Beer Sheva, Israel), Prof. Israel Sekler (Ben Gurion University Beer Sheva, Israel), Prof. John H. Weiss (UCI/USA) Prof. Pierre Paoletti (Ecole Normale Supérieure, INSERM, CNRS, Paris, France).

NOME: Stefano

COGNOME: Sensi

LUOGO E DATA DI NASCITA: Ferrara, 8 gennaio, 1962

POSIZIONE ATTUALE: **Professore Ordinario Neurologia (MED26),
Università "G. d'Annunzio" Chieti-Pescara**

**Direttore Dipartimento Neuroscienze, imaging e
scienze cliniche. Università G.d'Annunzio Chieti-
Pescara**

**Head del Laboratorio di Neurologia Molecolare,
Centro di tecnologie e studi avanzati (CAST),
Università "G.d'Annunzio" Chieti-Pescara**

**Visiting Professor Departments of Neurology and
Pharmacology, Institute for Memory Impairments
and Neurological Disorders, University of
California-Irvine, Irvine, CA, USA**

**Full Professor (Adjunct) of Neurology, University of
Texas Medical Branch, Galveston, TX, USA.**

INDIRIZZO:

CAST

Via Luigi Polacchi 11, Chieti Scalo

Telefono: 0871 541544

Fax: 0871 541542

Email: ssensi@unich.it

ATTIVITA' ASSISTENZIALE

Responsabile del Centro di Riabilitazione Cognitiva per le Demenze e la Demenza di Alzheimer, Presidio Ospedaliero di San Valentino, AUSL 04 Pescara.

Consultant Neurologist presso l'Alzheimer Disease Research Center (ADRC) della University of California-Irvine. Irvine, CA, USA

INCARICHI ISTITUZIONALI

2006-2020 Presidente Corso di Laurea in Terapia Occupazionale
Università G.d'Annunzio Chieti-Pescara

2014-2017 Membro Consiglio di Amministrazione Fondazione
Università G.d'Annunzio Chieti-Pescara

2020 Direttore Dipartimento Neuroscienze, imaging e
scienze cliniche. Università G.d'Annunzio Chieti-
Pescara

INNOVAZIONE, BREVETTI E SPIN-OFF

Settembre 2016- 2020 Socio fondatore e Presidente del Consiglio di
Amministrazione dello Spin-Off accademico della
Università G.d'Annunzio Chieti-Pescara "Health
Systems". Lo spin-off ha interessi nel campo hardware
e software per quanto concerne gli ambiti di
telemedicina e wifi-based technology

ATTIVITA' ALL'ESTERO

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 University of California at Irvine (UCI)
(10/97-06/98)

Assistant Adjunct Professor in Neurology UCI (07/98-06/02)
Associate Adjunct Professor in Neurology UCI (07/02-06/16)
Adjunct Professor in Neurology University of Texas Medical Branch, Galveston
(12/05-)
Associate Adjunct Professor in Pharmacology UCI (07/12-06/16)
Visiting Professor in Neurology and Pharmacology UCI (07/16-)

PREMI E RICONOSCIMENTI

1990 Miglior laureato in Medicina e Chirurgia della regione Abruzzo nel quinquennio
1985-1990
1999 National Institutes of Health (National Institute on Aging) K01 Award
(1999-2004) “Ruolo dei recettori AMPA-Kainato nella degenerazione neuronale”
2001 UCI –UCI College of Medicine Research Award
2002 UCI –UCI College of Medicine Van den Noort Research Award per ricerche in campo
neurologico
2017 Premio Histonium
2019 Top italian neuroscientists (44° posto)
(http://www.topitalianscientists.org/TIS_HTML/Top_Italian_Scientists_Neurosciences_Psychology.htm)

APPARTENENZA A SOCIETA' SCIENTIFICHE

-American Academy of Neurology
-European Society for Neuroscience
-Society for Neuroscience
-European Neuroscience Association
-Società Italiana di Neurologia
-Gruppo Italiano per l'invecchiamento
-Socio SINDEM (Società Italiana di Neurologia per le Demenze)
-Socio Fondatore e membro del consiglio direttivo dell' International Society
for Zinc Biology
- Membro del Comitato Scientifico della Società Italiana di Neurologia per le Demenze
(SINDEM) dal 2014 a tutt'oggi.

ATTIVITA' DI REFEREE PER RIVISTE A DIFFUSIONE INTERNAZIONALE ED ADVISORY BOARDS

- Brain Research-Reviewer
- Biochem Biophys Res Commun-Reviewer
- Cellular Molecular Biology (Noisy-le-grand)-Reviewer
- Experimental Brain Research-Reviewer

- Experimental Neurology-Reviewer
- European Journal of Neuroscience-Reviewer
- Glia-Reviewer
- Metabolic Brain Disease-Reviewer
- Molecular Pharmacology-Reviewer
- Nature Chemical Biology-Reviewer
- Nature Neuroscience Review-Reviewer
- Neurobiology of Disease-Reviewer
- Neurobiology of Aging-Reviewer
- Neuroreport-Reviewer
- Neuroscience-Reviewer
- Neuroscience Letters-Reviewer
- Nutritional Neuroscience-Reviewer
- Journal of Alzheimer's disease-Reviewer
- Journal of Biological Chemistry-Reviewer
- J. of Cell Science-Reviewer
- J Histochem Cytochem-Reviewer
- Journal of Inorganic Biochemistry-Reviewer
- Journal of Molecular Medicine-Reviewer
- Journal Neurochemistry-Reviewer
- Journal of Neuroscience-Reviewer
- Journal of Neuroscience Research-Reviewer
- Journal of Neuroscience Methods-Reviewer
- PLOS ONE-Reviewer
- PNAS-Reviewer
- Trends in Neurosciences-Reviewer
- Nature-Reviewer

- Associate Editor Journal of Alzheimer's disease 2007-2008; 2019-
- Associate Editor Frontiers in Behavioral Neuroscience 2008- ad oggi
- Associate Editor Brain Disorders and Therapeutic 2011- ad oggi
- Academic Editor PloS ONE 2011- ad oggi
- Associate Editor Dataset in Neuroscience 2012
- Associate Editor Advances in Alzheimer's Disease 2012
- Academic Editor PeerJ 2012 ad oggi
- Associate Editor Frontiers in Neuroscience 2016- ad oggi
- Associate Editor Frontiers in Neurology 2016 ad oggi
- Associate Editor Frontiers in Psychiatry 2016 ad oggi
- Associate Editor Scientific Reports 2017 ad oggi
- Associate Editor Frontiers in Aging Psychiatry 2019

- Associate Editor Frontiers in Behavioral Neuroscience 2019
- National Science Foundation- Grant Reviewer
- Ohio University- Grant Reviewer
- BSF (USA-Israel Binational Science Foundation)-Grant reviewer
- ISRAEL SCIENCE FOUNDATION-Grant reviewer
- ALZHEIMER ASSOCIATION – Grant reviewer 2007- ad oggi
- Associazione Italiana Ricerca contro il Cancro AIRC 2007
- Membro del Committee for the Young Scientist Award, 2004 Zinc Signals Meeting
- Program Chair ed organizzatore del Congresso Internazionale “2006 Zinc Signals Meeting”, Abbazia di MonteOliveto Maggiore, Siena, Settembre 16-21, 2006.
- Membro del Program Committee of the Zinc Signal and Cellular Function Meeting, 60th Fughihara Seminar series, Oct 29-31, 2010, Osaka, Giappone
- Chair del symposium della Society for Neuroscience: “The Neurophysiology and Pathology of Brain Zinc”. Society for Neuroscience Meeting, Washington DC, 12-16 Nov 2011

DIDATTICA

- Responsabile dei corsi di Neurologia presso la Scuole di Medicina dell’ UCI e UDA dal 1999 ad oggi.
- Ha supervisionato più di 40 tesi di laurea per i corsi di Medicina, Psicologia, Terapia Occupazionale, e fatto da mentor a 30 PhD and postdocs molti approdati ad incarichi presso prestigiosi centri di ricerca internazionali quali il Dr. Carlo Corona (Columbia University, USA), Dr. Alberto Granzotto (UCI, USA), Dr. Valerio Frazzini (Hôpital Universitaire Pitié Salpêtrière, France), Dr. Laura Bonanni (Yale University, USA), Dr. Elisa Isopi (SISSA, Italy), Dr. Anna Pensalfini (Nathan Kline Institute, USA)

FONDI DI RICERCA

Borsa di studio CNR per le Biotecnologie (01/91-01/92, 12.000,00 Euro).

2001 UCI –College of Medicine Research Award (\$18.000,00).

Principal- Investigator-National Institutes of Health, National Institute on Aging KO1 Award 5 K01 AG000919-03, PHYSIOLOGY OF ZINC PERMEABLE AMPA/KAINATE RECEPTORS, (04/99 to 04/04- \$ 525.000,00).

Consulente FIRB 2003 “Protein Misfolding”, (70.000,00 Euro per una copertura di 3 anni).

Responsabile dell'Unità di Ricerca del progetto PRIN 2004 "Interazioni neuroni-glia nei meccanismi di neurodegenerazione e neuroprotezione" (50.000,00 Euro per un copertura di 2 anni).

Co-Principal Investigator-NIH-RO1 NINDS 5R01NS036548-092005 "AMPA/Kainate Receptors, Free Radicals, and Motor Neuron Injury" (\$1.250.000,00 per una copertura di 5 anni).

Responsabile dell'Unità di Ricerca del progetto PRIN 2006 "Chelazione dello Zinco e inibizione del proteasome in un modello animale di Alzheimer disease" (85.000,00 Euro per 2 anni).

Responsabile del fondo di ricerca su progetto: "Role Of Exanamide in synaptic dysfunction in triple 3xTG-AD mice" erogato da Lilly-Amylin. (\$ 75.000; 2008- 1 anno di finanziamento).

Responsabile dell'Unità di Ricerca del 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 anni di finanziamento).

Responsabile Nazionale del Progetto Ordinario di Ricerca Clinica 2014 del Ministero della Salute "Effects of Multimodal Training on cognition, biomarkers, rs-fMRI, and brain structural integrity in MCI patients RF-2013-02355949- 2015-2018 (3 anni di finanziamento 732.736,00 Euro).

Co-Investigatore del 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 anni di finanziamento 2.1 MI Euro).

Principal Investigator del progetto "Exenatide-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 del progetto "Cerebellum, a neglected AD target?" Alzheimer's Association AGAIN Exploration to Evaluate Novel Alzheimer's Disease Targets (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

H-Factor: 46(Scopus); Citations: >9800; Average citations per item: 85.3

Publications peer-reviewed :

1. AMOROSO S., **SENSI S.L.**, DI RENZO G.F. and ANNUNZIATO L. Inhibition of the Na⁺ Ca⁺⁺ exchanger enhances anoxia and glucopenia induced [3]Aspartate release in hippocampal slices **J. Pharmacol. Exp. Ther.** 264:515-20, 1993.
2. CSERNANSKY C.A., CANZONIERO L.M.T., **SENSI S.L.**, YU S.P. and CHOI DW. Delayed application of Aurintricarboxylic acid reduced glutamate neurotoxicity. **J. Neurosci. Res.** 38 :101-108, 1994.
3. TURETSKY D., CANZONIERO L.M.T., **SENSI S.L.**, WEISS J.H., GOLDBERG M.P. and CHOI D.W. Cortical neurons exhibiting kainate-activated Co⁺⁺ uptake are selectively vulnerable to AMPA receptor-mediated toxicity. **Neurobiol. Dis.** (Exper. Neur. II) 1:101-110, 1994.
4. LYNCH III J.J., YU S.P., CANZONIERO L.M.T., **SENSI S.L.**, and CHOI D.W. Sodium channel blockers reduce oxygen-glucose deprivation-induced cortical neuronal injury when combined with glutamate receptor antagonists. **J. Pharmacol. Exper. Ther.** 273:554-560, 1995.
5. BEHERENS M.I., KOH J., CANZONIERO L.M.T., **SENSI S.L.**, CSERNANSKY C.A. and CHOI D.W. 3-Nitropropionic acid induces apoptosis in cultured striatal and cortical neurons. **Neuroreport** 6:545-548, 1995.
6. 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.
7. KOH J., WIE M.B., GWAG B.J., **SENSI S.L.**, CANZONIERO L.M.T., CSERNANSKY C.A and CHOI D.W. Staurosporine induces apoptosis in cultured cortical neurons. **Exp. Neurol.** 135: 153-159, 1995.
8. **SENSI S.L.**, CANZONIERO L.M.T. and CHOI D.W. Recovery from NMDA-induced intracellular acidification is slow and dependent on extracellular bicarbonate. **Am. J. Physiol.** 270: C593-C599, 1996.
9. CANZONIERO L.M.T., **SENSI S.L.**, TURETSKY D.M., FINLEY M.F.A., CHOI D.W and HUETTNER J.E. Glutamate receptor mediated calcium entry in neurons derived from P19 embryonal carcinoma cells. **J. Neurosci. Res.** 45: 226-236, 1996.

10. YU S.P., **SENSI S.L.**, CANZONIERO, L.M.T., BUISSON A. and CHOI D.W. Membrane-delimited modulation of NMDA receptor currents by metabotropic glutamate receptor subtypes 1/5 in mouse cortical neurons. *Journal of Physiology* 499 (Pt 3), 721-732, 1997.
11. 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.
12. CANZONIERO L.M., **SENSI S.L.**, CHOI D.W. Measurement of intracellular free zinc in living neurons. *Neurobiol Dis.* 4:275-279, 1997.
13. YING H.S., WEISHPAUPT J.H., GRABB M., CANZONIERO L.M.T., **SENSI S.L.**, SHELINE C.T., MONYER H., CHOI D.W. Sublethal oxygen-glucose deprivation alters hippocampal neuronal AMPA receptor expression and vulnerability to kainate-induced death. *J. Neurosci.* 17:9536-9544, 1997.
14. **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.
15. XU J., CHEN S., YE H. C.H., HE L., **SENSI S.L.**, CANZONIERO L.M.T., CHOI D.W. HSU C.Y. Involvement of de novo ceramide biosynthesis in TNF- α /cycloheximide-induced cerebral endothelial cell death. *J. Biol. Chem.* 273:16521-6, 1998.
16. McDONALD J.W., BHATTACHARYA T., **SENSI S.L.**, LOBNER D., YING H.S., CANZONIERO L.M.T. and CHOI D.W. Extracellular acidity potentiates AMPA receptor-mediated cortical neuronal death. *J. Neurosci.* 8:6290-9, 1998.
17. CARRIEDO S.G., YIN H.Z., **SENSI S.L.**, WEISS J.H. Rapid Ca²⁺ entry through Ca²⁺ permeable AMPA/kainate channels triggers marked intracellular Ca²⁺ rises and consequent oxygen radical production. *J. Neurosci.* 18:7727-38, 1998.
18. GWAG B.J., CANZONIERO L.M.T., **SENSI S.L.**, DE MARO J.A, KOH J.Y., GOLDBERG M.P., JACQUIN M., CHOI D.W. Calcium ionophores can induce either apoptosis or necrosis in cultured cortical neurons. *Neuroscience* 90:1339-48, 1999.
19. **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.
20. YIN H.Z., **SENSI S.L.**, CARRIEDO S.G., WEISS J.H. Dendritic localization of Ca²⁺ permeable AMPA/kainate channels in hippocampal pyramidal neurons. *J. Comp. Neurol.* 409:250-60 1999.

21. **SENSI S.L.**, YIN H.Z, WEISS J.H. Glutamate triggers preferential Zn²⁺ flux through Ca²⁺ permeable AMPA channels and consequent ROS production. *Neuroreport* 10:1723-7, 1999.
22. CHOI W.S., CANZONIERO L.M.T., **SENSI S.L.**, O'MALLEY K.L., GWAG B.J., SOHN S., KIM J.E, OH T.H., LEE E.B., OH Y.J. Characterization of MPP⁺-induced cell death in a dopaminergic neuronal cell line: role of macromolecule synthesis, cytosolic calcium, caspase, and Bcl-2-related proteins. *Exper. Neurol.* 159 274-282, 1999.
23. CARRIEDO S.G., **SENSI S.L.**, YIN H.Z., WEISS J.H. AMPA exposures induce mitochondrial Ca²⁺ overload and ROS generation in spinal motor neurons in vitro. *J. Neurosci.* 20:240-250, 2000.
24. WEISS J.H and **SENSI S.L.** Ca²⁺-Zn²⁺ permeable AMPA or kainate receptors possible mediators in selective neural injury. *Trends in Neurosci.* 23:365-71, 2000.
25. SNIDER B.J., CHOI J, TURETSKY D.M., CANZONIERO L.M.T., **SENSI S.L.**, SHELINE C.T., WANG X., YU S.P., CHOI D.W. Nitric oxide reduces Ca²⁺ and Zn²⁺ influx through voltage-gated Ca²⁺ channels and reduces Zn²⁺ neurotoxicity. *Neuroscience* 100:651-661, 2000.
26. WEISS J.H, **SENSI S.L.**, KOH J.Y. Zn²⁺: Novel ionic mediator of neural injury in brain disease. *Trends in Pharmacol.* 21:395-401, 2000.
27. **SENSI S.L.**, YIN H.Z., WEISS J.H. AMPA/kainate receptor-triggered Zn²⁺ entry into cortical neurons induces mitochondrial Zn²⁺ uptake and persistent mitochondrial dysfunction. *Eur. J. Neurosci.* 12:3813-8, 2000.
28. JIANG D., SULLIVAN P., **SENSI S.L.**, STEWARD O, WEISS J.H. Zn²⁺ induces PTP opening and release of pro-apoptotic peptides from neuronal mitochondria. *J. Biol. Chem.* 276, 50: 47524-47529, 2001.
29. YIN H.Z., **SENSI S.L.**, OGOSHI F., WEISS J.H. Blockade of Ca²⁺ permeable AMPA/kainate channels prevents oxygen glucose deprivation induced Zn²⁺ accumulation and neuronal loss in hippocampal pyramidal neurons. *J. Neurosci.*, 22,1273-9, 2002.
30. GEE K.R., ZHOU Z.L., TON-THAT D., **SENSI S.L.**, WEISS J.H. Measuring Zinc in Living Cells. A New Generation of Sensitive and Selective Fluorescent Probes. *Cell Calcium*, 31: 245-51, 2002.
31. **SENSI S.L.**, TON-THAT D., WEISS J.H. Mitochondrial sequestration and Ca²⁺ dependent release of cytosolic Zn²⁺ loads in cortical neurons. *Neurobiol. Dis* 10:100-08, 2002.
32. JIA Y., JENG J.M., **SENSI S.L.**, WEISS J.H. Zn²⁺ currents are mediated by Ca²⁺-permeable AMPA/kainate channels in cultured hippocampal neurons *J. Physiol.*, 543:35-48, 2002

33. DINH T.P., CARPENTER D., LESLIE F.M., FREUND T.F., KATONA I., **SENSI S.L.**, PIOMELLI D. Characterization of brain monoglyceride lipase that participates in endocannabinoid inactivation, *PNAS*, 99:10819-24, 2002.
34. **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
35. **SENSI S.L.**, TON-THAT D., WEISS J.H., ROTHE A., GEE K.R. A new mitochondrial fluorescent zinc sensor. *Cell Calcium*. 2003 34:281-4.
36. OHANA E., SEGAL D, PALTU R., TON-THAT D., MORAN A., **SENSI S.L.**, WEISS J.H., HERSHFINKEL M, SEKLER I. A sodium zinc exchange mechanism is mediating extrusion of zinc in mammalian cells. *J. Biol. Chem.*, 2004 279:4278-84
37. **SENSI S.L.**, JENG J-M, Rethinking the ischemic ionic milieu: the emerging role of Zn²⁺ in neuronal injury. *Current Molecular Medicine*, 2004 4(2):87-111. Review
38. FREDERICKSON C.J., BURDETTE S.C., FREDERICKSON C., **SENSI S.L.**, WEISS J.H., YIN H.Z., BALAJI R.V., TRUONG-TRAN A.Q., BEDELL E, PROUGH D.S., LIPPARD S.J. Method for identifying neuronal cells suffering zinc toxicity by use of a novel fluorescent sensor. *J Neurosci Methods*. 2004 139(1):79-89.
39. CAPASSO M., JENG J-M, MALAVOLTA M., MOCCHEGIANI, **SENSI S.L.**, Zinc dyshomeostasis: a key modulator of neuronal injury. *Journal of Alz. Dis.* 8(2):93-108, 2006
40. **SENSI S.L.**, and van RENSBURG S., Meeting Report: It's All in the Metals. *Journal of Alz. Dis.* 8(2):206-207, 2006.
41. BONANNI L, CHACHAR M, JOVER-MENGUAL T, LI H, JONES A, YOKOTA H, OFENGEIM D, FLANNERY RJ, MIYAWAKI T, CHO CH, POLSTER BM, PYPAERT M, HARDWICK JM, **SENSI SL**, ZUKIN RS, JONAS EA. Zinc-dependent multi-conductance channel activity in mitochondria isolated from ischemic brain. *J. Neurosci.* 2006;26(25):6851-62.
42. **SENSI SL**, ROCKABRAND E, CANZONIERO LM.T. Acidosis enhances toxicity induced by kainate and zinc exposure in aged cultured astrocytes. *Biogerontology* 2006 (5-6):367-374.
43. FRAZZINI V, ROCKABRAND E, MOCCHEGIANI E, **SENSI S.L.**, Oxidative stress and brain aging: is zinc the link? *Biogerontology* 2006 (5-6):307-314.
44. ROCKABRAND E, SLEPKO N, PANTALONE A, NUKALA VN, KAZANTSEV A, MARSH JL, SULLIVAN PG, STEFFAN JS, **SENSI S.L.**, THOMPSON LM. The 1st 17 amino acids of Huntingtin modulate its sub-cellular localization, aggregation and effects on calcium homeostasis. *Hum Mol Genet.* 2007 16(1):61-77. Epub 2006 Nov 29.

45. **SENSI S.L.**, CANZONIERO LMT, BENOFF S. Cell signaling in health and disease: think zinc! **Mol. Med**, 2007 Jun 11; [Epub ahead of print]
46. FRAZZINI V, RAPPOSELLI IR, CORONA C, ROCKABRAND E, CANZONIERO LM.T. **SENSI SL** Mild Acidosis Enhances AMPA receptor-mediated Intracellular Zinc Mobilization in Cortical Neurons, **Mol. Med**, 2007 1 (7-8):356-61.
47. LYNES MA, KANG JY, **SENSI SL.**, PERDRIZET^{GA}, AND LAWRENCE E. HIGHTOWER^a Heavy metal ions in normal physiology, toxic stress and cytoprotection, **Annals N. Y. Acad of Science** May 4; 2007, 1113: 159-172
48. SEKLER I, **SENSI SL**, HERSHFINKEL M, SILVERMAN WF. Mechanism and regulation of cellular zinc transport. **Mol Med**. 2007 Jul-Aug;13(7-8):337-43. Review.
49. ESPOSITO E, CAPASSO M, DI TOMASSO N, CORONA C, PELLEGRINI F, UNCINI A, VITAGLIONE P, FOGLIANO V, PIANTELLI M, **SENSI SL**. Antioxidant strategies based on tomato-enriched food or pyruvate do not affect disease onset and survival in an animal model of amyotrophic lateral sclerosis. **Brain Res**. 2007 1168:90-6. Epub 2007 Jul 31.
50. **SENSI SL**, RAPPOSELLI IG, FRAZZINI V, MASCETRA N. Altered oxidant-mediated intraneuronal zinc mobilization in a triple transgenic mouse model of Alzheimer's disease. **Exp Gerontol**. 2008 May;43(5):488-92. Epub 2007 Nov 12.
51. BERTONI-FREDDARI C, **SENSI SL**, GIORGETTI B, BALIETTII M, DI STEFANO G, CANZONIERO LM, CASOLI T, FATTORETTI P. Decreased presence of perforated synapses in a triple-transgenic mouse model of Alzheimer's disease. **Rejuvenation Res**. 2008 Apr;11(2):309-13.
52. DRAGO D, CAVALIERE A, MASCETRA, CIAVARDELLI D, DI ILIO C, ZATTA P, **SENSI SL** Aluminum modulates effects of B-Amyloid₁₋₄₂ on neuronal calcium homeostasis and mitochondria functioning and is altered in a triple transgenic mouse model of Alzheimer's disease **Rejuvenation Res**. 2008 Oct;11(5):861-71.
53. CAPORALE T, CIAVARDELLI D, DI ILIO C, LANUTI P, DRAGO D, **SENSI SL**. Ratiometric-pericampt, a novel tool to evaluate intramitochondrial zinc. **Exp Neurol**. 2009 Aug;218(2):228-34. Epub 2009 Apr 15.
54. ZATTA P, DRAGO D, BOLOGNIN S, **SENSI SL**. Alzheimer's disease, metal ions and metal homeostatic therapy. **Trends Pharmacol Sci**. 2009 Jul;30(7):346-55. Epub 2009 Jun 17. Review.
55. **SENSI SL**, PAOLETTI P, BUSH AI, SEKLER I. Zinc in the physiology and pathology of the CNS. **Nat Rev Neurosci**. 2009 Nov;10(11):780-91. Epub 2009 Oct 14.
56. 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

57. PALTU 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.
58. 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.
59. 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.
60. 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
61. 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)
62. 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]
63. 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).
64. 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).

65. 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.
66. **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.
67. 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
68. 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
69. 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.
70. 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.
71. 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.
72. 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.
73. 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.
74. 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.

75. 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.
76. BONANNI L, BONTEMPO G, BORRELLI I, BIFOLCHETTI S, BUONGARZONE MP, CARLESINI N, CAROLEI A, CICCOCIOPPO 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, ONOFRI 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.
77. 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.
78. 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.
79. 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.
80. 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 2014.
81. 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.
82. 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.
83. 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]

84. CIAVARDELLI D, PIRAS F, CONSALVO A, ROSSI C, ZUCHELLI 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.
85. 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.
86. 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
87. 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.
88. 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>
89. 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.
90. V FRAZZINI, A GRANZOTTO, M BOMBA, N MASSETTI, V CASTELLI, M D'AURORA, M PUNZI, M I ORIO, 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
91. 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>
92. MOSCA A, SPERDUTI S, POP V, CIAVARDELLI D, GRANZOTTO A, PUNZI M, STUPPIA L, GATTA V, ASSOGNA 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.
93. 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.
 94. **SENSI S.L.** Alzheimer's disease time to turn the tide *Aging* (Albany NY). 2018 Oct 13. doi: 10.18632/aging.101581.
 95. 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.
 96. **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.
 97. 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
 98. VOZELLA V, BASIT A, PIRAS F, REALINI N, ARMIROTTI A, BOSSÙ P, ASSOIGNA 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]
 99. 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*
 100. 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.
 101. 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.
 102. 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.

103. 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.
104. 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.
105. 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.
106. ANZELLOTTI F, DONO F, EVANGELISTA G, DI PIETRO M, CARRARINI C, RUSSO M, FERRANTE C, **SENSI SL**, ONOFRJ M. Psychogenic Non-epileptic Seizures and Pseudo-Refractory Epilepsy, a Management Challenge. *Front Neurol*. 2020 Jun 2;11:461. doi: 10.3389/fneur.2020.00461. eCollection 2020.
107. DELLI PIZZI S, FRANCIOTTI R, FERRETTI A, EDDEN RAE, ZÖLLNER HJ, ESPOSITO R, BUBBICO G, AIELLO C, CALVANESE F, **SENSI SL**, TARTARO A, ONOFRJ M, BONANNI L. High γ -Aminobutyric Acid Content within the Medial Prefrontal Cortex Is a Functional Signature of Somatic Symptoms Disorder in Patients with Parkinson's Disease. *Mov Disord*. 2020 Aug 3. doi: 10.1002/mds.28221. Online ahead of print.
108. DONO F, EVANGELISTA G, FRAZZINI V, VOLLONO C, CARRARINI C, RUSSO M, FERRANTE C, DI STEFANO V, MARCHIONNO LP, DE ANGELIS MV, FAUSTINO M, BONANNI L, ONOFRJ M, **SENSI SL**, ANZELLOTTI F. Interictal Heart Rate Variability Analysis Reveals Lateralization of Cardiac Autonomic Control in Temporal Lobe Epilepsy. *Front Neurol*. 2020 Aug 14;11:842. doi: 10.3389/fneur.2020.00842. eCollection 2020.
109. SPALLETTA, G.; IORIO, M.; VECCHIO, D.; PIRAS, F.; CIULLO, V.; BANAJ, N.; **SENSI, S.L.**; GIANNI, W.; ASSOGNA, F.; CALTAGIRONE, C.; PIRAS, F. Subclinical Cognitive and Neuropsychiatric Correlates and Hippocampal Volume Features of Brain White Matter Hyperintensity in Healthy People. *J. Pers. Med*. 2020, 10, 172. 10(4), 172; <https://doi.org/10.3390/jpm10040172>

Correspondence:

SENSI S.L., HERSHFINKEL M, SEKLER I, BUSH A.I. A zinc sidekick for the anti-COVID-19 hydroxychloroquine effects? *Science*
<https://science.sciencemag.org/content/368/6486/10/tab-e-letters>

GRANZOTTO A, **SENSI S.L.** Minocycline-A Lesson From a Failure. *JAMA Neurol.* 2020 Aug 1;77(8):1037-1038. doi: 10.1001/jamaneurol.2020.1154.

SENSI S.L., GRANZOTTO A, FERRETTI MT, SANTUCCIONE CHADHA A Brain and mental health: one size does not fit all *Science* <https://science.sciencemag.org/content/369/6508/1164/tab-e-letters>

SENSI S.L., MASSETTI N, GRANZOTTO A. Neurodegeneration: hints from outside the Central Nervous System. *Science* <https://science.sciencemag.org/content/370/6512/61/tab-e-letters>

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Chieti 20 Ottobre 2020

A handwritten signature in blue ink on a light-colored background. The signature is stylized and appears to read "Sensi S.L." with a period at the end.