

# Veronica Corsetti

## LANGUAGE SKILLS

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Mother tongue(s): **Italian**

Other language(s): **English (written and spoken: fluent)**

## EDUCATION AND TRAINING

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### PhD in Neuroscience

*University of "Tor Vergata"*

[ 18/12/2008 ]

**Address:** 00133 Rome (Italy)

**Thesis:** "Identification of a caspase-derived N-terminal tau fragment in cellular and animal Alzheimer's disease models"

### Master degree in Biological Sciences

*University "Sapienza"* [ 16/12/2004 ]

**Address:** 00185 Rome (Italy)

**Thesis:** "Analysis of Acetylcholine release mechanism in sensory neurons and stable cell line F11"

## PATENT

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### CNR-Patent n. 11722838.7-1223

Title: "Method for the diagnosis and treatment of tauopathies".

N° ref CNR: 10063

## Brevetto

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Tipo: EUROPEO

Filing date: 03.06.2011.

Titolo: DIAGNOSTIC AND PROGNOSTIC METHOD FOR HUMAN TAUOPATHIES

Nr. Brevetto: 11722838.7-1223. Rif CNR 10063 PCT059206

Elenco autori: AMADORO GIUSEPPINA-CALISSANO PIETRO- CORSETTI VERONICA

Tipo: EUROPEO

Filing date: 27.04.2018

Titolo: ANTIBODY DIRECTED AGAINST A TAU-DERIVED NEUROTOXIC PEPTIDE AND USES THEREOF

Nr. Brevetto: PCT060934

Elenco autori: AMADORO GIUSEPPINA-CALISSANO PIETRO- CORSETTI VERONICA

## ACCADEMIC TITLE

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**National Scientific Qualification for Associate Professor (Abilitazione Scientifica Nazionale, ASN, II Fascia). (ASN 2016-2018) (2018-2024). Academic Discipline: 05/B2; Applied Biology (05/F1- BIO/13).**

[ 04/2018 ]

## PROFESSIONAL AND RESEARCH EXPERIENCES

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**Researcher (permanent position), Institute of Translational Pharmacology (IFT) - National Research Council (CNR)**

[ 07/2020 – Current ]

**Senior Post-doc at EBRI (European Brain Research Institute) of Italy, Rome.**

[ 04/2017 – 07/2018 ]

Research Project: Magnetic Diagnostic Assay for neurodegenerative diseases (MADIA) H2020-ICT-2016-2017" SSI - Smart System Integration"

Lab: Prof. Pietro Calissano

**Research Associate, National Research Council (CNR) of Italy, Rome. Institute of Translational Pharmacology (IFT).**

[ 10/2013 – 03/2017 ]

Research Project: Altered Tau protein metabolism, mitochondrial dysfunction and synapse loss in AD type neurodegeneration.

Lab: Dott.ssa Giuseppina Amadoro

**Post- Doctoral Fellowship at EBRI (European Brain Research Institute) c/o C.E.R.C. (European Centre of Brain Research) Rome (Italy).**

[ 01/2009 – 09/2013 ]

Lab: Prof. Pietro Calissano

**Post-graduate and PhD training at University "Tor Vergata "c/o C.E.R.C. (European Centre of Brain Research) Rome (Italy).**

[ 01/2006 – 12/2008 ]

Lab: Prof. Pietro Calissano

**Telethon Fellowship at the "V.I.M.M. (Venetian Institute of Molecular Medicine) Padova (ITALY).**

[ 05/2005 – 12/2005 ]

Research Project: Cardiac Hypertrophy

Lab: Dr. Manuela Zacco.

**Undergraduate fellow, Prof. Ada Maria Tata lab at the Department of Cellular and Developmental Biology, University "La Sapienza" of Rome (Italy).**

[ 10/2002 – 12/2004 ]

**In addition to the research activity I carry out the activity of Nutritionist, specializing in the field of fertility and assisted reproduction.**

[ 2010 – Current ]

## RELEVANT COURSES AND CERTIFICATIONS

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Laboratory Animal Science, FELASA (Federation of European laboratory animal science associations) certification. November 2007 (45 ECM)

Master in Dietology and Human Nutrition (S.I.S.R.A.N-Rome) (40 ECM)

Corso di Aggiornamento e Formazione in Alimentazione e Nutrizione Umana (SNS) (50 ECM)

## ATTENDED COURSES

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**Participation at various courses on nutrition issues, with particular interest in the ketogenic diet, the paleo approach, autoimmune diseases and fertility disorder.**

[ 2010 – 2021 ]

## ATTENDED CONGRESS

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*Corsetti V, Notari T., Montano L.*

L'effetto di una dieta mediterranea bio-low-carb sui livelli di testosterone e di frammentazione del dna spermatico.

VI Congresso SIRU Roma 12-14 aprile 2023

*Corsetti V*

Il ruolo di una corretta nutrizione nel miglioramento dei parametri spermatici e della libido

Congresso Nazionale SIA – Bergamo 13-15- settembre 2023.

*Corsetti V*

“Dieta a basso contenuto di carboidrati: un nuovo approccio per migliorare la risposta alla stimolazione ovarica e lo spessore dell'endometrio durante un trasferimento da congelato”

V Congresso SIRU Rimini 26-28 maggio 2022

*Corsetti V*

“Endometriosis and low carb diet a new approach”

ESHRE: Endometriosis and infertility: the extent of the problem. Milan, Italy 23-24 January 2020

*Corsetti V*

“The impact of food intake on semen and oocyte quality”

64th Conference GEI - Italian Society of Developmental and Cell Biology - L'Aquila 11-14 June 2018.

## TEACHING ASSIGNMENTS IN UNIVERSITY AND HIGHER EDUCATION COURSES

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**Speaker at the Congress SIRU: Obesità e Riproduzione clinica with a seminar entitled: Interferenti endocrini ed impatto sulla fertilità: la dietoterapia**

[ May 2023 ]

**Speaker at the Congress SIRU: La medicina della Riproduzione tra ricerca e clinica with a seminar entitled: L'impatto dell'obesità della femmina sullo sviluppo embrionale**

[ April 2023 ]

**Speaker at the Webinar SIRU “Gli effetti epigenetici legati all'ambiente e agli stili di vita” with a seminar entitled: Alimentazione e Fertilità**

[ October 2022 ]

**Speaker at the Congress: Come affrontare le problematiche riproduttive e metaboliche della donna in età fertile with a seminar entitled: Nutrienti & Fertilità femminile**

[ September 2022 ]

**Speaker at the Congress SIA with a seminar entitled: Ruolo della dieta nel dolore pelvico cronico**

[ September 2022 ]

**Speaker at the Congress SIRU "Il valore della fertilità" with a seminar entitled: L' Impatto della Nutrizione sulla fertilità maschile**

[ June 2022 ]

**Speaker at the Congress SIRU "Come quando e Perché: la presa in carico della coppia fertile" with a seminar entitled: Dieta e stili di vita: possono contribuire a migliorare la qualità del liquido seminale prima di un ciclo PMA?**

[ May 2022 ]

**Speaker at the Congress Centri Mir with a seminar entitled: Alimentazione e Fertilità: la personalizzazione del trattamento**

[ March 2022 ]

**Speaker at the Webinar SIRU "Endometriosi e possibili nuovi approcci" with a seminar entitled: Dieta ed Endometriosi**

[ March 2022 ]

**Speaker at the Webinar SIRU "Nutrizione e Fertilità: un binomio indissolubile" with a seminar entitled: L' Importanza della nutrizione nelle patologie ovulatorie.**

[ December 2021 ]

**Speaker at the master di medicina tradizionale cinese e fertilità with a seminar entitled: Nutrition and PMA**

[ October 2021 ]

**Lesson at University of Rome "Sapienza" for the course of Developmental Biology "Nutrizione e fertilità: Quali evidenze?"**

[ 05/2021 ]

**Speaker at the Webinar SIA "Nutraceutica ed Infiammazione Prostatica" with a seminar entitled: Prostatiti e Alimenti: Esiste una correlazione?**

[ 03/2021 ]

**Master Collaborator and teacher for the Master Universitario di 2° livello (second level professional master programmes): Biologia della Nutrizione per la Riproduzione umana. University "Sapienza" of Rome, Italy.**

[ 02/2021 - 01/2022 ]

**Scientific Director and teacher for the training courses: "L'Infertilità nella coppia a 360°". Scuola di Nutrizione Salernitana (SNS).**

[ 12/2020 ]

**Speaker at the congress: "INFERTILITA' E FECONDAZIONE ASSISTITA: COSA SAPERE VERAMENTE OGGI" with a seminar entitled: Contributo nutrizionale in PMA per obesità Pcos endometriosi. Rome.**

[ 03/12/2020 ]

**Scientific Director and speaker of the FAD congress: ORMONI: UNA SINERGIA MULTIFATTORIALE PER IL BENESSERE A 360 GRADI.**

[ 11/2020 ]

**Speaker at the congress: NUTRIZIONE E FERTILITA': UN APPROCCIO INTEGRATO, with a seminar entitled: Nutrizione e PMA: quali evidenze? Piacenza.**

[ 19/09/2020 ]

**Teacher for the FAD course Scuola di Nutrizione Salernitana (SNS): Le Diete chetogeniche**

[ 05/2020 ]

Two lessons:

- 1) La Dieta Chetogenica e la Fecondazione assistita
- 2) La Dieta Chetogenica come Protocollo coadiuvante l'Endometriosi

**Speaker at the 1s Congress of Metagenics Academy: "Il nuovo paradigma dell'approccio integrato per il benessere dell'ecosistema intestinale" with a seminar entitled: " Intestinal well-being in women of fertile age ".**

[ 11/2019 ]

**Speaker at the 2nd ENPAB-SIA Congress: "The importance of the partnership between andrologist and biologist in male infertility" with a seminar entitled: "Nutrition and reflexes on couple fertility: detoxification".**

[ 07/2019 ]

**Speaker at "1st Congress of the Consultative Gynecologists Association (AGO): Feminine pain between faith, art and science" with a seminar entitled: "Vitamin D from fertile age to post menopause".**

[ 06/2019 ]

**Speaker at "3rd Congresso della Scuola di Nutrizione Salernitana (SNS): Aggiornamenti in Nutrizione Umana" with a seminar entitled: " Update in male fertility: new possibilities, perspectives, therapies and integrations ".**

[ 06/2019 ]

**Lesson at University of Rome "Sapienza" for the course of Developmental Biology "Nutrients and embryonic development"**

[ 05/2019 ]

**Speaker at 1st Congress ENPAB-SIA: "The importance of the partnership between andrologist and biologist in male infertility "with a seminar entitled:" Nutrition and reflexes on couple fertility: the liver ".**

[ 04/2019 ]

**Speaker for Metagenics at the Seminar "Fertility and Pregnancy: how to take care of your femininity" with a seminar entitled: "Detox &Fertility"**

[ 04/2019 ]

**Teaching for the course "Equilibrio Donna" with the collaboration of Salernitana School of Nutrition, for the seminar: " IVF: dietary approaches for medically assisted procreation pathways"**

[ 01/2019 ]

**Speaker for Metagenics at the Seminar "Fertility and Pregnancy: how to take care of your femininity" with a seminar entitled: "Fertility Detox: Casi Clinici"**

[ 12/2018 ]

**Speaker at "2nd Congresso Nazionale della Società Italiana della Riproduzione Umana (SIRU)" with a seminar entitled: "Role of nutrition in the maintenance of male fertility"**

[ 10/2018 ]

**Lesson at University of Rome "Sapienza" for the course of Developmental Biology "Fertility and Nutrition"**

[ 05/2018 ]

**Teaching for the Salernitana School of Nutrition, for the seminar: " The impact of nutrition on IVF"**

[ 05/2017 ]

**Speaker at the congress "Updates in human nutrition" of the Salernitana school of nutrition with a seminar entitled: "Food, hormones and fertility how to regulate them?"**

[ 06/2016 ]

**Teaching for the Salernitana School of Nutrition, for the seminar: "Fertility: the key role of nutrition".**

[ 06/2015 ]

## **WORK EXPERIENCE**

**Nutritionist for the Wellness program "Tu al meglio" by Vitasnella**

[ 02/2016 – 12/2018 ]

**Nutritionist for the "Nike woman week"**

[ 25/01/2016 – 29/01/2016 ]

City: Milan

Country: Italy

**Short and occasional training experiences at the foreign clinic of reproductive medicine.**

[ 08/2009 – 12/2014 ]

## **PUBLICATIONS ON INTERNATIONAL PEER-REVIEWED JOURNALS (H-INDEX: 14)**

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**"Spontaneous aggregation and altered intracellular distribution of endogenous alpha-synuclein during neuronal apoptosis"**

A Gentile, G Amadoro, V Corsetti, MT Ciotti, A. Serafino, P Calissano J. Alzheimer Disease 2008 Mar 13(2):151-60  
IF: 3.731

**"Identification of a caspase-derived N-terminal tau fragment in cellular and animal Alzheimer disease models"**

Corsetti V\*, Amadoro G\*, Atlante A., Gentile A., Canu N., Cencioni M.T., Rohn T., Calissano P.  
Molec. Cellular Neurosci 2008 Jul 38(3) 381-92. IF: 3.084

\* These authors equally contributed to this work.

**"A peptide containing residues 26-44 of tau protein impairs mitochondrial oxidative phosphorylation acting at the level of the adenine nucleotide translocator."**

A. Atlante, G. Amadoro, A. Bobba, L. de Bari, V. Corsetti, G. Pappalardo, E. Marra, P. Calissano, S. Passarella.  
Biochim Biophys Acta. 2008 Oct;1777(10):1289-300. IF: 5.34

**"Endogenous A $\beta$  causes cell death via early tau hyperphosphorylation"**

G. Amadoro,\* V. Corsetti,\* M.T. Ciotti, F. Florenzano, S. Capsoni, G. Amato, P. Calissano. Neurobiol. Aging (2009), doi:10.1016/j.neurobiolaging.2009.06.005 IF: 5.117

\* These authors equally contributed to this work.

**"A NH<sub>2</sub> tau fragment targets neuronal mitochondria at AD synapses: possible implications for neurodegeneration."**

G. Amadoro\*, V. Corsetti \*, A. Stringaro, M. Colone, S. D'Aguzzo, G. Meli, M. T. Ciotti, G. Sancesario, A. Cattaneo, D. Mercanti, P. Calissano.

Journal of Alzheimer Disease 2010 Jan 1;21(2):445-70 IF: 3.731

\* These authors equally contributed to this work.

**"Does the term "trophic" actually mean anti-amyloidogenic? The case of NGF"**

P. Calissano, G. Amadoro, C. Matrone, S. Ciafrè, V. Corsetti, R. Marolda, M.T. Ciotti, A. Di Luzio, C. Severini, D. Mercanti, C. Provenzano, N. Canu.

Cell Death Differ. 2010 Jul;17(7):1126-33.. Review. IF: 8.339

**"Interaction between NH<sub>2</sub>-tau fragment and A $\beta$  in AD mitochondria contributes to the synaptic deterioration"**

G. Amadoro\*, V. Corsetti\*, A. Atlante\*, F. Florenzano, S. Capsoni, R. Bussani, D. Mercanti, P. Calissano  
Neurobiol. Aging Apr;33(4):833.e1-25. doi: 10.1016/j. IF: 5.117

\* These authors equally contributed to this work.

**"The mechanisms and possible sites of acetylcholine release during chick primary sensory neuron differentiation"**

Corsetti V., Mozzetta C., Biagioni S., Augusti Tocco G., Tata AM.

Life Sci. 2012 Oct 22;91(15-16):783-8. doi: 10.1016/j.lfs.2012.08.026 IF: 2.936

**"Mitochondrial respiratory chain Complexes I and IV are impaired by  $\beta$ -amyloid via direct interaction and through Complex I-dependent ROS production, respectively"**

Bobba A., Amadoro G., Valenti D., Corsetti V., Lassandro R., Atlante A.

Mitochondrion. 2013 Jul;13(4):298-311. doi: 10.1016/j.mito.2013.03.008. IF: 3.704

**"AD-linked, toxic NH<sub>2</sub> human tau affects the quality control of mitochondria in neurons."**

Amadoro G\*, Corsetti V\*, Florenzano F, Atlante A, Ciotti MT, Mongiardi MP, Bussani R, Nicolin V, Nori SL, Campanella M, Calissano P.

Neurobiol Dis. 2014 Feb;62:489-507. doi: 10.1016/j.nbd.2013.10.018. Epub 2013 Oct 24 IF:5.02

\* These authors equally contributed to this work.

**“Morphological and bioenergetic demands underlying the mitophagy in post-mitotic neurons: the pink-parkin pathway.”**

Amadoro G\*, Corsetti V\*, Florenzano F, Atlante A, Bobba A, Nicolin V, Nori SL, Calissano P.

Front Aging Neurosci. 2014 Feb 18;6:18. doi: 10.3389/fnagi.2014.00018. eCollection 2014. Review. IF: 4.504

\*These authors equally contributed to this work.

**“Cerebrospinal Fluid Levels of a 20-22 kDa NH2 Fragment of Human Tau Provide a Novel Neuronal Injury Biomarker in Alzheimer's Disease and Other Dementias.”**

Amadoro G\*, Corsetti V\*, Sancesario GM, Lubrano A, Melchiorri G, Bernardini S, Calissano P, Sancesario G.

J Alzheimers Dis. 2014 Jan 1;42(1):211-26. doi: 10.3233/JAD-140267. IF: 3.731

\* These authors equally contributed to this work.

**“NH2-truncated human tau induces deregulated mitophagy in neurons by aberrant recruitment of Parkin and UCHL-1: implications in Alzheimer's disease.”**

Corsetti V, Florenzano F, Atlante A, Bobba A, Ciotti MT, Natale F, Della Valle F, Borreca A, Manca A, Meli G, Ferraina C, Feligioni M, D'Aguanno S, Bussani R, Ammassari-Teule M, Nicolin V, Calissano P, Amadoro G.

Hum Mol Genet. 2015 Jun 1;24(11):3058-81. doi: 10.1093/hmg/ddv059. IF: 5.34

**“Cardiac Hypertrophy Is Inhibited by a Local Pool of cAMP Regulated by Phosphodiesterase 2.”**

Zoccarato A, Surdo NC, Aronsen JM, Fields LA, Mancuso L, Dodoni G, Stangherlin A, Livie C, Jiang H, Sin YY, Gesellchen F, Terrin A, Baillie GS, Nicklin SA, Graham D, Szabo-Fresnais N, Krall J, Vandeput F, Movsesian M, Furlan L, Corsetti V, Hamilton G, Lefkimmatis K, Sjaastad I, Zaccolo M.

Circ Res. 2015 Sep 25;117(8):707-19. doi: 10.1161/CIRCRESAHA.114.305892 IF: 13.965

**“The Intersection of NGF/TrkA Signaling and Amyloid Precursor Protein Processing in Alzheimer's Disease Neuropathology.”**

Canu N, Amadoro G, Triaca V, Latina V, Sposato V, Corsetti V, Severini C, Ciotti MT, Calissano P.

Int J Mol Sci. 2017 Jun 20;18(6). pii: E1319. doi: 10.3390/ijms18061319. Review. IF: 3.226

**“Extracellular truncated tau causes early presynaptic dysfunction associated with Alzheimer's disease and other tauopathies”**

Florenzano F\*, Corsetti V\*, Ciasca G\*, Ciotti M.T., Pittaluga A., Olivero G., Feligioni M., Iannuzzi F., Latina V., Sciacca M.F.M., Sinopoli A., Milardi D., Pappalardo G., De Spirito M., Papi M., Atlante A., Bobba A., Borreca A., Calissano P. and Amadoro G.

Oncotarget doi: 10.18632/oncotarget.17371 IF 5,168

\* These authors equally contributed to this work.

**“AD-Related N-Terminal Truncated Tau Is Sufficient to Recapitulate In Vivo the Early Perturbations of Human Neuropathology: Implications for Immunotherapy.”**

Borreca A\*, Latina V\*, Corsetti V\*, Middei S, Piccinin S, Della Valle F, Bussani R, Ammassari-Teule M, Nisticò R, Calissano P, Amadoro G.

Mol Neurobiol. 2018 Mar 5. doi: 10.1007/s12035-018-0974-3. [Epub ahead of print]

\* These authors equally contributed to this work.



**“Dynamic structural determinants underlie the neurotoxicity of the N-terminal tau 26-44 peptide in Alzheimer's disease and other human tauopathies”**

Perini G, Ciasca G, Minelli E, Papi M, Palmieri V, Maulucci G, Nardini M, Latina V, Corsetti V, Florenzano F, Calissano P, De Spirito M, Amadoro G.

Int J Biol Macromol. 2019 Aug 27;141:278-289. doi: 10.1016/j.ijbiomac.2019.08.220. [Epub ahead of print]

**"N-terminal tau truncation in the pathogenesis of Alzheimer's disease (AD): Developing a novel diagnostic and therapeutic approach."**

Amadoro G, Latina V, Corsetti V, Calissano P.

Biochim Biophys Acta Mol Basis Dis. 2020 Mar 1;1866(3):165584. doi: 10.1016/j.bbadis.2019.165584. Epub 2019 Oct 29.

**“Transient upregulation of translational efficiency in prodromal and early symptomatic Tg2576 mice contributes to A $\beta$  pathology”**

Borrecchia A, Valeri F, De Luca M, Ernst L, Russo A, Nobili A, Cordella A, Corsetti V, Amadoro G, Mercuri NB, D'Amelio M, Ammassari-Teule M.

Neurobiol Dis. 2020 Jun;139:104787. doi: 10.1016/j.nbd.2020.104787. Epub 2020 Feb 4.

**"Passive immunotherapy for N-truncated tau ameliorates the cognitive deficits in two mouse Alzheimer's disease models."**

Corsetti V, Borrecchia A, Latina V, Giacobazzo G, Pignataro A, Krashia P, Natale F, Cocco S, Rinaudo M, Malerba F, Florio R, Ciarapica R, Coccurello R, D'Amelio M, Ammassari-Teule M, Grassi C, Calissano P, Amadoro G.

Brain Commun. 2020 Apr 6;2(1):fcaa039. doi: 10.1093/braincomms/fcaa039. eCollection 2020.

**"Expression of cholinergic markers and characterization of splice variants during ontogenesis of rat dorsal root ganglia neurons"**

Corsetti V, Perrone-Capano C, Intriago M.S.S., ...Biagioni S, Tata A.M.

International Journal of Molecular Sciences, 2021, 22(11), 5499

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