

DANIELA UBERTI

POSIZIONE ATTUALE

Professore Associato in Farmacologia, presso Università degli Studi di Brescia

FORMAZIONE SCOLASTICA

- 1993 Laurea in Chimica e Tecnologia Farmaceutica, presso l'Università degli Studi di Milano
- 1998 Dottorato in Neuroscienze presso l'Università degli studi di Brescia

ESPERIENZE

- 1994-1998 Studente di dottorato, presso il Dipartimento di Scienze Biomediche e Biotecnologie, Laboratori di Farmacologia, Università degli Studi di Brescia
- 1997-1998 Visiting PhD student presso Weizmann Institute of Science, Rehovot, Israel
- 1999-2003 Postdoc presso il Dipartimento di Scienze Biomediche e Biotecnologie, Laboratori di Neurofarmacologia, Università di Degli Studi di Brescia
- 2004-2017 Ricercatore presso Dipartimento di Scienze Biomediche e Biotecnologie, Università degli Studi di Brescia
- 2012-2014 Visiting Professor presso National Institute of Biological Science, Scientific Park, Beijing, Cina
- 2012 Co-fondatore della Spin off Universitaria Diadem srl
- 2012-2016 CEO della Spin off Universitaria Diadem
- 2017 - C.S.O presso Diadem srl

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- 2017- Professore Associato in Farmacologia, presso Università degli Studi di Brescia
- 2020- Coordinatore di un unità operativa afferente alla Piattaforma congiunta IRCCS-UniBS, per il Laboratorio Marcatori Molecolari dell' IRCCS Istituto Centro San Giovanni di Dio Fatebenefratelli

SCIENTIFIC SKILLS

PROGETTI

-DU ha partecipato ai seguenti progetti finanziati, sviluppando e portando avanti in prima persona le idee progettuali:

- PRIN 2003: Conformational and functional alterations of p53 in Alzheimer's disease, #2003057355_006;
- PRIN 2005: Modulation of p53 conformational state induced by beta amyloid, # 2005051707_004;
- PRIN 2007: Functional correlation between p53 and Beta Amyloid, #2007HJCCSF_005;
- FoRST foundation 2010: The effect of sulphur thermal water on immune system and redox profile;
- PONLAB 2011: Project to upgrade the structural laboratory of the University of Messina for food analysis, the study of their impact on human health and technology consulting, legal and economic assistance to food companies.
- Fondazione Eulo 2014, progetto "Anziani IN-RETE": *invecchiamento, stato di salute e RETE sociale in anziani residenti in Brescia*

-DU ha personalmente coordinato come PI due progetti nazionali:

- PRIN 2005 Biological functions of different oligomeric Beta Amyloid isoforms, #2005054147_005
- PRIN 2008, Study of redox balance and autophagic and proteasome processes in different cellular phenotype overexpressing wild type and mutant APP #2008R25HBW_004).

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-DU ha coordinato come co-PI:

- Biomane 2015, bando di Ateneo UNIBS Health&Wealth. Identification of new aged-related biomarkers for neurodegenerative diseases: a multidisciplinary approach.
- Innodriver 2020, bando Regione Lombardia, COSMETICA INNOVATIVA ED ECOSOSTENIBILE: Progetto di sviluppo sperimentale per la valutazione dell'efficacia ed ecosostenibilità di prodotti cosmetici

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TRASFERIMENTO TECNOLOGICO

Nel 2012 DU ha vinto un bando nell'ambito dell'art.11 DM 593/2000 per la costituzione di una Spin off Universitaria, con l'obiettivo di approfondire le ricerche nell'ambito dello sviluppo di tecnologie per la diagnosi delle demenze, con particolare riguardo alla patologia dell'Alzheimer..

Nel 2017 ha ottenuto un finanziamento di €1,5 milioni da parte del Venture Capital Panakes Partners che ha portato DIADEM a diventare una start up innovativa.

Nel 2019 DIADEM ha ricevuto una seconda tranche di finanziamento di €1,5 milioni per attività di fundraising per sviluppare il test diagnostico AlzoSure™, e portare avanti le procedure di accreditamento presso le agenzie regolatorie. Attualmente Daniela Uberti è un socio della società e ricopre l'incarico di CSO.

BREVETTI

DU è co-inventore dei seguenti brevetti:

- 2002 Composti utili per il trattamento delle malattie neurodegenerativa. ITMI20022413A1
- 2003 Metodo per l'identificazione precoce della malattia di Alzheimer ITMI20031709A
- 2015 Antibody binding a linear epitope of p53 and its diagnostic applications PCT/EP2015/072094 → extension agreement U.S patent US10875908B2; world international patent office WIPO/PCT WO2020178620A1
- 2019 p53 peptides as markers in the diagnosis and prognosis of Alzheimer's disease PCT/IB2019/051785 → extension agreement WIPO/PCT WO2020/178620

INDICATORI BIBLIOMETRICI

Abilitazione scientifica nazionale alla funzione di professore di prima fascia per il settore concorsuale 05/G1. VALIDO DAL 12/04/2017 AL 12/04/2023 (art. 16, comma 1, Legge 240/10)

COLLABORAZIONI NAZIONALI E INTERNAZIONALI

- Weizmann Institute of Science, Lab. Molecular Cell Biology , Rehovot, Israele
- International Institute of Molecular and Cell Biology, Varsavia, Polonia
- Nencki Institute of Experimental Biology, Warsaw, Poland

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- Department of Chemistry, Center of Membrane Sciences, and Sanders-Brown Center on Aging, University of Kentucky, Lexington, KY, USA
- Institute of Fundamental Neuroscience, Departments of Physical Therapy Rehabilitation Science, Neurological Surgery, University of California San Francisco
- Institute of Biotechnology of Asturias (IUBA), University of Oviedo, Medical Hospital of Geneva
- Cleveland Clinic Lou Ruvo Center for Brain Health, Las Vegas
- Universität Bonn, Germania
- The Florey Institute of Neuroscience and Mental Health, Melbourne, Australia
- Dipartimento di Scienze del Farmaco, Università of Pavia
- Scienze Biomediche, Sperimentali E Cliniche 'Mario Serio', Università degli Studi di Firenze
- Dipartimento di Medicina Specialistica, Diagnostica e Sperimentale, Università of Bologna
- Dipartimento di Scienze Biochimiche "A. Rossi Fanelli" La Sapienza, Università di Roma
- Dipartimento Scienze Mediche Chirurgiche e Sperimentali, Università di Sassari
- Dipartimento di Farmacologia Sperimentale e Clinica, Università di Catania
- IRCCS Istituto Centro San Giovanni Di Dio Fatebenefratelli di Brescia
- Consiglio per la ricerca in agricoltura e l'analisi dell'economia agraria (CREA) di Piacenza

TEACHING EXPERIENCES

- 2003- *Cds Scienze Infermieristiche*
Insegnamenti : Farmacologia generale ; Farmacologia clinica
- 2004-2013 *Cds Biotecnologie*
Insegnamenti : Farmacologia e Farmacologia applicata,
- 2011-2014 *Cds Scienze Motorie*
Insegnamenti : Farmacologia
- 2014-2017 *Cds Master Degree course in Science and Technology for Population Health and Wealth*
Insegnamenti : Pharmacology of Nutrition and Nutraceuticals ;

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Cardiovascular Pharmacology (in inglese)

2011-2012 Membro del Consiglio docenti del Dottorato di Ricerca in Neuroscienze

2013- Membro del Consiglio docenti del Dottorato di Ricerca in Scienze Biomediche e Medicina Traslazionale

COMMISSIONI E INCARICHI ISTITUZIONALI

2017-2019 Membro del gruppo del riesame del CdSM in Science and technology for population health and wealth

Maggio 2018- Membro della Commissione di lavoro per le procedure di accreditamento per l'attivazione del Corso di laurea Magistrale in Farmacia presso l'Università degli Studi di Brescia

Settembre 2019- Membro del PQD del Dipartimento di Medicina Molecolare e Traslazionale per il Corso di Studi in Farmacia

Gennaio 2020- Referente per il Tolc-F CISIA e della promozione dei Cds dell'area medica presso le scuole superiori.

Dicembre 2020- -Vice -presidente del Cds in Farmacia
-Membro della gruppo del riesame Cds Farmacia

SETTORI DI INTERESSE

- Fisiopatologia della malattia di Alzheimer (AD).
- Blood-based biomarkers per l'identificazione precoce dell'AD
- Studi di proteomica e redox-proteomica nelle malattie neurodegenerative
- Studio della regolazione dei sistemi redox e dell'infiammazione nei processi di invecchiamento
- Nutraceutica
- Sensori elettrochimici per il rilevamento di biomarcatori

OTHERS

- Membro ISTAART, nell'area di interesse (PIA): i) Nutrition, Metabolism and Dementia; ii) Biofluid Based Biomarkers.

DANIELA UBERTI

- Membro del comitato editoriale di Biosensors
- Guest Editor for the special issue "Biosensors for Neurodegenerative Disease and Related Disorders", in Biosensors
- Attività di "Reviewers" for international peer-reviewed journals as *Brain Research, Neuroscience Letters, FEBS Letters, Alzheimer's and Dementia, Nutraceuticals, Neuropharmacology, Neurobiology of ageing, Molecular Nutrition and Food Research, Journal of Alzheimer's Disease, Nutrition and Metabolism, Experimental Gerontology*, e fondazioni tra cui *Alzheimer's Association (USA); FWO (Belgio)*,
- Vincitrice del premio per creatori e promotori del benessere in ambito biomedico, *The wellness festival, Caramarico Terme 2016*
- Co-autore di **82** pubblicazioni peer-reviewed, di cui **47** risulta primo o ultimo nome; H-index **30**

<https://www.scopus.com/authid/detail.uri?authorId=6602195189><http://orcid.org/0000-0002-5926-9122>

N. articoli	82
N. citazioni	2296
H index	30

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PUBBLICAZIONI

1. Abate G, Vezzoli M, Polito L, Guaita A, Albani D, Marizzoni M, Garrafa E, Marengoni A, Forloni G, Frisoni GB, Cummings JL, Memo M, **Uberti D**. A Conformation Variant of p53 Combined with Machine Learning Identifies Alzheimer Disease in Preclinical and Prodromal Stages. *J Pers Med*. 2020 Dec 26;11(1):E14. doi: 10.3390/jpm11010014. PMID: 33375220.
2. Abate G, Frisoni GB, Bourdon JC, Piccirella S, Memo M, **Uberti D**. The pleiotropic role of p53 in functional/dysfunctional neurons: focus on pathogenesis and diagnosis of Alzheimer's disease. *Alzheimers Res Ther*. 2020 Dec 3;12(1):160. doi: 10.1186/s13195-020-00732-0. PMID: 33272326; PMCID: PMC7712978.
3. Abate G, Vezzoli M, Sandri M, Rungratanawanich W, Memo M, **Uberti D**. Mitochondria and cellular redox state on the route from ageing to Alzheimer's disease. *Mech Ageing Dev*. 2020 Dec;192:111385. doi: 10.1016/j.mad.2020.111385. Epub 2020 Oct 28. PMID: 33129798.
4. Abate G, Memo M, **Uberti D**. Impact of COVID-19 on Alzheimer's Disease Risk: Viewpoint for Research Action. *Healthcare (Basel)*. 2020 Aug 21;8(3):286. doi: 10.3390/healthcare8030286. PMID: 32839380; PMCID: PMC7551579.
5. Squillario M, Abate G, Tomasi F, Tozzo V, Barla A, **Uberti D**. A telescope GWAS analysis strategy, based on SNPs-genes-pathways ensemble and on multivariate algorithms, to characterize late onset Alzheimer's disease. *Sci Rep*. 2020 Jul 21;10(1):12063. doi: 10.1038/s41598-020-67699-8. PMID: 32694537; PMCID: PMC7374579.
6. Rungratanawanich, Wiramon, Abate, Giulia, **Uberti, Daniela** (2020). Pharmacological profile of γ -oryzanol: Its antioxidant mechanisms and its effects in age-related diseases. In: Chapter 20 - Pharmacological profile of γ -oryzanol: Its antioxidant mechanisms and its effects in age-related diseases. p. 201-208, ISBN: 9780128186985, doi: 10.1016/B978-0-12-818698-5.00020-1
7. Tonello S, Stradolini F, Abate G, **Uberti D**, Serpelloni M, Carrara S, Sardini E. Electrochemical detection of different p53 conformations by using nanostructured surfaces. *Sci Rep*. 2019 Nov 22;9(1):17347. doi: 10.1038/s41598-019-53994-6. PMID: 31758050; PMCID: PMC6874615.
8. Parrella E, Bellucci A, Porrini V, Benarese M, Lanzillotta A, Faustini G, Longhena F, Abate G, **Uberti D**, Pizzi M. NF- κ B/c-Rel deficiency causes Parkinson's disease-like prodromal symptoms and progressive pathology in mice. *Transl Neurodegener*. 2019 May 21;8:16. doi: 10.1186/s40035-019-0154-z. PMID: 31139367; PMCID: PMC6530198.

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9. Rungratanawanich W, Cenini G, Mastinu A, Sylvester M, Wilkening A, Abate G, Bonini SA, Aria F, Marziano M, Maccarinelli G, Memo M, Voos W, **Uberti D**. γ -Oryzanol Improves Cognitive Function and Modulates Hippocampal Proteome in Mice. *Nutrients*. 2019 Mar 31;11(4):753. doi: 10.3390/nu11040753. PMID: 30935111; PMCID: PMC6520752.
10. Mastinu A, Bonini SA, Rungratanawanich W, Aria F, Marziano M, Maccarinelli G, Abate G, Premoli M, Memo M, **Uberti D**. Gamma-oryzanol Prevents LPS-induced Brain Inflammation and Cognitive Impairment in Adult Mice. *Nutrients*. 2019 Mar 29;11(4):728. doi: 10.3390/nu11040728. PMID: 30934852; PMCID: PMC6520753.
11. Marziano M, Tonello S, Cantù E, Abate G, Vezzoli M, Rungratanawanich W, Serpelloni M, Lopomo NF, Memo M, Sardini E, **Uberti D**. Monitoring Caco-2 to enterocyte-like cells differentiation by means of electric impedance analysis on printed sensors. *Biochim Biophys Acta Gen Subj*. 2019 May;1863(5):893-902. doi:10.1016/j.bbagen.2019.02.008. Epub 2019 Feb 25. PMID: 30817979.
12. Tonello, S., Borghetti, M., Lopomo, N.F., Serpelloni, M., Sardini, E., Marziano, M., Serzanti, M., **Uberti, D.**, Dell'era, P., Inverardi, N., Gualandi, C., Focarete, M.L. Ink-jet printed stretchable sensors for cell monitoring under mechanical stimuli: A feasibility study (2019) *Journal of Mechanics in Medicine and Biology*, 19 (6), art. no. 1950049, . DOI: 10.1142/S0219519419500490
13. Cantù E, Tonello S, Abate G, **Uberti D**, Sardini E, Serpelloni M. Aerosol Jet Printed 3D Electrochemical Sensors for Protein Detection. *Sensors (Basel)*. 2018 Nov 1;18(11):3719. doi: 10.3390/s18113719. PMID: 30388817; PMCID: PMC6263692.
14. Rungratanawanich W, Memo M, **Uberti D**. Redox Homeostasis and Natural Dietary Compounds: Focusing on Antioxidants of Rice (*Oryza sativa* L.). *Nutrients*. 2018 Nov 1;10(11):1605. doi: 10.3390/nu10111605. PMID: 30388764; PMCID: PMC6265930.
15. Tramutola A, Abate G, Lanzillotta C, Triani F, Barone E, Iavarone F, Vincenzoni F, Castagnola M, Marziano M, Memo M, Garrafa E, Butterfield DA, Perluigi M, Di Domenico F, **Uberti D**. Protein nitration profile of CD3⁺ lymphocytes from Alzheimer disease patients: Novel hints on immunosenescence and biomarker detection. *Free Radic Biol Med*. 2018 Dec;129:430-439. doi: 10.1016/j.freeradbiomed.2018.10.414. Epub 2018 Oct 12. PMID: 30321702.
16. Rungratanawanich W, Abate G, Serafini MM, Guarienti M, Catanzaro M, Marziano M, Memo M, Lanni C, **Uberti D**. Characterization of the Antioxidant Effects of γ -Oryzanol: Involvement of the Nrf2 Pathway. *Oxid Med Cell Longev*. 2018 Mar 14;2018:2987249. doi:

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10.1155/2018/2987249. PMID: 29725495; PMCID: PMC5872657.

17. Garrafa E, Casnici N, Squazzoni F, **Uberti D**, Marengoni A. C-reactive protein, lipoprotein (a) and cystatin C levels increase with multimorbidity in older persons. *Eur J Intern Med.* 2017 Jul;42:e25-e26. doi:10.1016/j.ejim.2017.04.010. Epub 2017 Apr 23. PMID: 28442285.
18. Bianchetti L, Squazzoni F, Casnici N, Bianchini D, Garrafa E, Archetti C, Romano V, Rozzini L, Melchiori M, Fiorentini C, **Uberti D**, Calza S, Marengoni A. Social networks and health status in the elderly: the 'ANZIANI IN-RETE' population-based study. *Aging Clin Exp Res.* 2017 Dec;29(6):1173-1179. doi: 10.1007/s40520-017-0726-7. Epub 2017 Feb 16. PMID: 28211026.
19. Abate G, Marziano M, Rungratanawanich W, Memo M, **Uberti D**. Nutrition and AGE-ing: Focusing on Alzheimer's Disease. *Oxid Med Cell Longev.* 2017;2017:7039816. doi: 10.1155/2017/7039816. Epub 2017 Jan 12. PMID: 28168012; PMCID: PMC5266861.
20. Tonello, S., Abate, G., Borghetti, M., Marziano, M., Serpelloni, M., **Uberti, D.L.**, Lopomo, N.F., Memo, M., Sardini, E. Wireless Point-of-Care Platform With Screen-Printed Sensors for Biomarkers Detection (2017) *IEEE Transactions on Instrumentation and Measurement*, . Article in Press. DOI: 10.1109/TIM.2017.2692308
21. Arce-Varas N, Abate G, Prandelli C, Martínez C, Cuetos F, Menéndez M, Marziano M, Cabrera-García D, Fernández-Sánchez MT, Novelli A, Memo M, **Uberti D**. Comparison of Extracellular and Intracellular Blood Compartments Highlights Redox Alterations in Alzheimer's and Mild Cognitive Impairment Patients. *Curr Alzheimer Res.* 2017;14(1):112-122. doi: 10.2174/1567205013666161010125413. PMID: 27748187.
22. Delbarba A, Abate G, Prandelli C, Marziano M, Buizza L, Arce Varas N, Novelli A, Cuetos F, Martinez C, Lanni C, Memo M, **Uberti D**. Mitochondrial Alterations in Peripheral Mononuclear Blood Cells from Alzheimer's Disease and Mild Cognitive Impairment Patients. *Oxid Med Cell Longev.* 2016;2016:5923938. doi: 10.1155/2016/5923938. Epub 2016 Jan 6. PMID: 26881032; PMCID: PMC4736772.
23. Prandelli C, Parola C, Buizza L, Delbarba A, Marziano M, Salvi V, Zacchi V, Memo M, Sozzani S, Calza S, **Uberti D**, Bosisio D. Sulphurous thermal water increases the release of the anti-inflammatory cytokine IL-10 and modulates antioxidant enzyme activity. *Int J Immunopathol Pharmacol.* 2013 Jul- Sep;26(3):633-46. doi: 10.1177/039463201302600307. PMID: 24067460.
24. Montinaro M, **Uberti D**, Maccarinelli G, Bonini SA, Ferrari-Toninelli G, Memo M. Dietary zeolite supplementation reduces oxidative damage and plaque generation in the brain of an Alzheimer's disease mouse model.

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Life Sci. 2013 May 20;92(17-19):903-10. doi: 10.1016/j.lfs.2013.03.008. Epub 2013 Apr 3. PMID: 23562853.

25. Lanni C, Necchi D, Pinto A, Buoso E, Buizza L, Memo M, **Uberti D**, Govoni S, Racchi M. Zyxin is a novel target for β -amyloid peptide: characterization of its role in Alzheimer's pathogenesis. *J Neurochem*. 2013 Jun;125(5):790-9. doi:10.1111/jnc.12154. Epub 2013 Feb 13. PMID: 23330981.
26. Buizza L, Prandelli C, Bonini SA, Delbarba A, Cenini G, Lanni C, Buoso E, Racchi M, Govoni S, Memo M, **Uberti D**. Conformational altered p53 affects neuronal function: relevance for the response to toxic insult and growth-associated protein 43 expression. *Cell Death Dis*. 2013 Feb 7;4(2):e484. doi:10.1038/cddis.2013.13. PMID: 23392172; PMCID: PMC3734841.
27. Cecarini V, Bonfili L, Cuccioloni M, Mozzicafreddo M, Rossi G, Buizza L, **Uberti D**, Angeletti M, Eleuteri AM. Crosstalk between the ubiquitin-proteasome system and autophagy in a human cellular model of Alzheimer's disease. *Biochim Biophys Acta*. 2012 Nov;1822(11):1741-51. doi: 10.1016/j.bbadis.2012.07.015. Epub 2012 Jul 31. PMID: 22867901.
28. Crescini E, Gualandi L, **Uberti D**, Prandelli C, Presta M, Dell'Era P. Ascorbic acid rescues cardiomyocyte development in *Fgfr1(-/-)* murine embryonic stem cells. *Biochim Biophys Acta*. 2013 Jan;1833(1):140-7. doi:10.1016/j.bbamcr.2012.06.024. Epub 2012 Jun 23. PMID: 22735182.
29. Lanni C, Racchi M, Memo M, Govoni S, **Uberti D**. p53 at the crossroads between cancer and neurodegeneration. *Free Radic Biol Med*. 2012 May 1;52(9):1727-33. doi: 10.1016/j.freeradbiomed.2012.02.034. Epub 2012 Mar 3. PMID: 22387179.
30. Bialopiotrowicz E, Szybinska A, Kuzniewska B, Buizza L, **Uberti D**, Kuznicki J, Wojda U. Highly pathogenic Alzheimer's disease presenilin 1 P17R mutation causes a specific increase in p53 and p21 protein levels and cell cycle dysregulation in human lymphocytes. *J Alzheimers Dis*. 2012;32(2):397-415. doi: 10.3233/JAD-2012-121129. PMID: 22810102.
31. Buizza L, Cenini G, Lanni C, Ferrari-Toninelli G, Prandelli C, Govoni S, Buoso E, Racchi M, Barcikowska M, Styczynska M, Szybinska A, Butterfield DA, Memo M, **Uberti D**. Conformational altered p53 as an early marker of oxidative stress in Alzheimer's disease. *PLoS One*. 2012;7(1):e29789. doi: 10.1371/journal.pone.0029789. Epub 2012 Jan 5. PMID: 22242180; PMCID: PMC3252333.
32. Bonini SA, Ferrari-Toninelli G, **Uberti D**, Montinaro M, Buizza L, Lanni C, Grilli M, Memo M. Nuclear factor κ B-dependent neurite remodeling is mediated by Notch pathway. *J Neurosci*. 2011 Aug 10;31(32):11697-705. doi: 10.1523/JNEUROSCI.1113-11.2011. PMID: 21832199; PMCID:

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PMC6623121.

33. Stanga S, Lanni C, Govoni S, **Uberti D**, D'Orazi G, Racchi M. Unfolded p53 in the pathogenesis of Alzheimer's disease: is HIPK2 the link? *Aging (Albany NY)*. 2010 Sep;2(9):545-54. doi: 10.18632/aging.100205. PMID: 20876941; PMCID: PMC2984604.
34. Ferrari-Toninelli G, Bonini SA, **Uberti D**, Buizza L, Bettinsoli P, Poliani PL, Facchetti F, Memo M. Targeting Notch pathway induces growth inhibition and differentiation of neuroblastoma cells. *Neuro Oncol*. 2010 Dec;12(12):1231-43. doi: 10.1093/neuonc/noq101. Epub 2010 Aug 17. PMID: 20716592; PMCID: PMC3018939.
35. Lanni C, Nardinocchi L, Puca R, Stanga S, **Uberti D**, Memo M, Govoni S, D'Orazi G, Racchi M. Homeodomain interacting protein kinase 2: a target for Alzheimer's beta amyloid leading to misfolded p53 and inappropriate cell survival. *PLoS One*. 2010 Apr 14;5(4):e10171. doi: 10.1371/journal.pone.0010171. PMID: 20418953; PMCID: PMC2854690.
36. Zampagni M, Evangelisti E, Cascella R, Liguri G, Becatti M, Pensalfini A, **Uberti D**, Cenini G, Memo M, Bagnoli S, Nacmias B, Sorbi S, Cecchi C. Lipid rafts are primary mediators of amyloid oxidative attack on plasma membrane. *J Mol Med (Berl)*. 2010 Jun;88(6):597-608. doi: 10.1007/s00109-010-0603-8. Epub 2010 Mar 10. PMID: 20217034.
37. Ferrari-Toninelli G, Maccarinelli G, **Uberti D**, Buerger E, Memo M. Mitochondria-targeted antioxidant effects of S(-) and R(+) pramipexole. *BMC Pharmacol*. 2010 Feb 5;10:2. doi: 10.1186/1471-2210-10-2. PMID: 20137065; PMCID: PMC2829550.
38. Cenini G, Maccarinelli G, Lanni C, Bonini SA, Ferrari-Toninelli G, Govoni S, Racchi M, Butterfield DA, Memo M, **Uberti D**. Wild type but not mutant APP is involved in protective adaptive responses against oxidants. *Amino Acids*. 2010 Jun;39(1):271-83. doi: 10.1007/s00726-009-0438-1. Epub 2010 Jan 12. PMID: 20063202.
39. **Uberti D**, Cenini G, Bonini SA, Barcikowska M, Styczynska M, Szybinska A, Memo M. Increased CD44 gene expression in lymphocytes derived from Alzheimer disease patients. *Neurodegener Dis*. 2010;7(1-3):143-7. doi: 10.1159/000289225. Epub 2010 Mar 3. PMID: 20197694.
40. Lanni C, Racchi M, Stanga S, Mazzini G, Ranzenigo A, Polotti R, Memo M, Govoni S, **Uberti D**. Unfolded p53 in blood as a predictive signature of the transition from mild cognitive impairment to Alzheimer's disease. *J Alzheimers Dis*. 2010;20(1):97-104. doi: 10.3233/JAD-2010-1347. PMID: 20164600.
41. Cenini G, Cecchi C, Pensalfini A, Bonini SA, Ferrari-Toninelli G, Liguri G, Memo M, **Uberti D**. Generation of reactive oxygen species by beta

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- amyloid fibrils and oligomers involves different intra/extracellular pathways. *Amino Acids*. 2010 Apr;38(4):1101-6. doi: 10.1007/s00726-009-0319-7. Epub 2009 Jul 7.
42. Ferrari-Toninelli G, Bonini SA, **Uberti D**, Napolitano F, Stante M, Santoro F, Minopoli G, Zambrano N, Russo T, Memo M. Notch activation induces neurite remodeling and functional modifications in SH-SY5Y neuronal cells. *Dev Neurobiol*. 2009 May;69(6):378-91. doi: 10.1002/dneu.20710. PMID: 19263417.
43. Di Domenico F, Cenini G, Sultana R, Perluigi M, **Uberti D**, Memo M, Butterfield DA. Glutathionylation of the pro-apoptotic protein p53 in Alzheimer's disease brain: implications for AD pathogenesis. *Neurochem Res*. 2009 Apr;34(4):727-33. doi: 10.1007/s11064-009-9924-9. Epub 2009 Feb 6.
44. Salvioli S, Capri M, Bucci L, Lanni C, Racchi M, **Uberti D**, Memo M, Mari D, Govoni S, Franceschi C. Why do centenarians escape or postpone cancer? The role of IGF-1, inflammation and p53. *Cancer Immunol Immunother*. 2009 Dec;58(12):1909-17. doi: 10.1007/s00262-008-0639-6. Epub 2009 Jan 13. PMID: 19139887.
45. Racchi M, **Uberti D**, Govoni S, Memo M, Lanni C, Vasto S, Candore G, Caruso C, Romeo L, Scapagnini G. Alzheimer's disease: new diagnostic and therapeutic tools. *Immun Ageing*. 2008 Aug 13;5:7. doi: 10.1186/1742-4933-5-7. PMID: 18700965; PMCID: PMC2531076.
46. Ferrari-Toninelli G, Bonini SA, Cenini G, Maccarinelli G, Grilli M, **Uberti D**, Memo M. Dopamine receptor agonists for protection and repair in Parkinson's disease. *Curr Top Med Chem*. 2008;8(12):1089-99. doi: 10.2174/156802608785161402. PMID: 18691134.
47. **Uberti D**, Lanni C, Racchi M, Govoni S, Memo M. Conformationally altered p53: a putative peripheral marker for Alzheimer's disease. *Neurodegener Dis*. 2008;5(3-4):209-11. doi: 10.1159/000113704. Epub 2008 Mar 6. PMID: 18322392.
48. Ferrari-Toninelli G, Bonini SA, Bettinsoli P, **Uberti D**, Memo M. Microtubule stabilizing effect of notch activation in primary cortical neurons. *Neuroscience*. 2008 Jun 26;154(3):946-52. doi: 10.1016/j.neuroscience.2008.04.025. Epub 2008 Apr 22. PMID: 18495362.
49. Lanni C, Racchi M, **Uberti D**, Mazzini G, Stanga S, Sinforiani E, Memo M, Govoni S. Pharmacogenetics and pharmagenomics, trends in normal and pathological aging studies: focus on p53. *Curr Pharm Des*. 2008;14(26):2665-71. doi: 10.2174/138161208786264133. PMID: 18991686.

DANIELA UBERTI

50. Lanni C, Racchi M, Mazzini G, Ranzenigo A, Polotti R, Sinforiani E, Olivari L, Barcikowska M, Styczynska M, Kuznicki J, Szybinska A, Govoni S, Memo M, **Uberti D**. Conformationally altered p53: a novel Alzheimer's disease marker? *Mol Psychiatry*. 2008 Jun;13(6):641-7. doi: 10.1038/sj.mp.4002060. Epub 2007 Aug 7. PMID: 17684496.
51. Lanni C, **Uberti D**, Racchi M, Govoni S, Memo M. Unfolded p53: a potential biomarker for Alzheimer's disease. *J Alzheimers Dis*. 2007 Aug;12(1):93-9. doi: 10.3233/jad-2007-12109. PMID: 17851197.
52. **Uberti D**, Cenini G, Olivari L, Ferrari-Toninelli G, Porrello E, Cecchi C, Pensalfini A, Liguri G, Govoni S, Racchi M, Maurizio M. Over-expression of amyloid precursor protein in HEK cells alters p53 conformational state and protects against doxorubicin. *J Neurochem*. 2007 Oct;103(1):322-33. doi:10.1111/j.1471-4159.2007.04757.x. Epub 2007 Jul 2.
53. **Uberti D**, Bianchi I, Olivari L, Ferrari-Toninelli G, Canonico P, Memo M. Pramipexole prevents neurotoxicity induced by oligomers of beta-amyloid. *Eur J Pharmacol*. 2007 Aug 27;569(3):194-6. doi: 10.1016/j.ejphar.2007.05.009. Epub 2007 May 13. PMID: 17572405.
54. **Uberti D**, Bianchi I, Olivari L, Ferrari-Toninelli G, Bonini SA, Memo M. Dopaminergic agonists: possible neurorescue drugs endowed with independent and synergistic multisites of action. *Neurochem Res*. 2007 Oct;32(10):1726-9. doi: 10.1007/s11064-007-9350-9. Epub 2007 May 8. PMID: 17486445.
55. **Uberti D**, Ferrari-Toninelli G, Bonini SA, Sarnico I, Benarese M, Pizzi M, Benussi L, Ghidoni R, Binetti G, Spano P, Facchetti F, Memo M. Blockade of the tumor necrosis factor-related apoptosis inducing ligand death receptor DR5 prevents beta-amyloid neurotoxicity. *Neuropsychopharmacology*. 2007 Apr;32(4):872-80. doi: 10.1038/sj.npp.1301185. Epub 2006 Aug 16. PMID: 16936710.
56. Francisconi S, Codenotti M, Ferrari Toninelli G, **Uberti D**, Memo M. Mitochondrial dysfunction and increased sensitivity to excitotoxicity in mice deficient in DNA mismatch repair. *J Neurochem*. 2006 Jul;98(1):223-33. doi: 10.1111/j.1471-4159.2006.03864.x. PMID: 16805809.
57. **Uberti D**, Lanni C, Carsana T, Francisconi S, Missale C, Racchi M, Govoni S, Memo M. Identification of a mutant-like conformation of p53 in fibroblasts from sporadic Alzheimer's disease patients. *Neurobiol Aging*. 2006 Sep;27(9):1193-201. doi: 10.1016/j.neurobiolaging.2005.06.013. Epub 2005 Sep 13. PMID: 16165254.
58. Francisconi S, Codenotti M, Ferrari-Toninelli G, **Uberti D**, Memo M. Preservation of DNA integrity and neuronal degeneration. *Brain Res Brain Res Rev*. 2005 Apr;48(2):347-51. doi:

DANIELA UBERTI

10.1016/j.brainresrev.2004.12.023. PMID: 15850673.

59. Ferrari-Toninelli G, Paccioiretti S, Francisconi S, **Uberti D**, Memo M. TorsinA negatively controls neurite outgrowth of SH-SY5Y human neuronal cell line. *Brain Res.* 2004 Jun 25;1012(1-2):75-81. doi:10.1016/j.brainres.2004.02.080. PMID: 15158163.
60. Bonafé M, Salvioli S, Barbi C, Trapassi C, Tocco F, Storci G, Invidia L, Vannini I, Rossi M, Marzi E, Mishto M, Capri M, Olivieri F, Antonicelli R, Memo M, **Uberti D**, Nacmias B, Sorbi S, Monti D, Franceschi C. The different apoptotic potential of the p53 codon 72 alleles increases with age and modulates in vivo ischaemia-induced cell death. *Cell Death Differ.* 2004 Sep;11(9):962-73. doi: 10.1038/sj.cdd.4401415. PMID: 15131588.
61. **Uberti D**, Carsana T, Francisconi S, Ferrari Toninelli G, Canonico PL, Memo M. A novel mechanism for pergolide-induced neuroprotection: inhibition of NF-kappaB nuclear translocation. *Biochem Pharmacol.* 2004 May 1;67(9):1743-50. doi: 10.1016/j.bcp.2004.01.012. PMID: 15081873.
62. **Uberti D**, Cantarella G, Facchetti F, Cafici A, Grasso G, Bernardini R, Memo M. TRAIL is expressed in the brain cells of Alzheimer's disease patients. *Neuroreport.* 2004 Mar 22;15(4):579-81. doi: 10.1097/00001756-200403220-00002. PMID: 15094456.
63. Facchetti M, **Uberti D**, Memo M, Missale C. Nerve growth factor restores p53 function in pituitary tumor cell lines via trkA-mediated activation of phosphatidylinositol 3-kinase. *Mol Endocrinol.* 2004 Jan;18(1):162-72. doi: 10.1210/me.2003-0190. Epub 2003 Oct 2. PMID: 14525955.
64. Grilli M, Ferrari Toninelli G, **Uberti D**, Spano P, Memo M. Alzheimer's disease linking neurodegeneration with neurodevelopment. *Funct Neurol.* 2003 Jul- Sep;18(3):145-8. PMID: 14703895.
65. **Uberti D**, Ferrari Toninelli G, Memo M. Involvement of DNA damage and repair systems in neurodegenerative process. *Toxicol Lett.* 2003 Apr 4;139(2-3):99-105. doi: 10.1016/s0378-4274(02)00423-x. PMID: 12628744.
66. Cantarella G*, **Uberti D***, Carsana T, Lombardo G, Bernardini R, Memo M. Neutralization of TRAIL death pathway protects human neuronal cell line from beta-amyloid toxicity. *Cell Death Differ.* 2003 Jan;10(1):134-41. doi:10.1038/sj.cdd.4401143. PMID: 12655302. *first co-author
67. **Uberti D**, Carsana T, Bernardi E, Rodella L, Grigolato P, Lanni C, Racchi M, Govoni S, Memo M. Selective impairment of p53-mediated cell death in fibroblasts from sporadic Alzheimer's disease patients. *J Cell Sci.* 2002 Aug 1;115(Pt 15):3131-8. PMID: 12118068.

DANIELA UBERTI

68. **Uberti D**, Piccioni L, Colzi A, Bravi D, Canonico PL, Memo M. Pergolide protects SH-SY5Y cells against neurodegeneration induced by H₂O₂. *Eur J Pharmacol.* 2002 Jan 2;434(1-2):17-20. doi: 10.1016/s0014-2999(01)01537-0. PMID: 11755160.
69. **Uberti D**, Meli E, Memo M. Expression of cell-cycle-related proteins and excitotoxicity. *Amino Acids.* 2002;23(1-3):27-30. doi: 10.1007/s00726-001-0105-7. PMID: 12373514.
70. **Uberti D**, Piccioni L, Cadei M, Grigolato P, Rotter V, Memo M. p53 is dispensable for apoptosis but controls neurogenesis of mouse dentate gyrus cells following gamma-irradiation. *Brain Res Mol Brain Res.* 2001 Sep 10;93(1):81-9. doi: 10.1016/s0169-328x(01)00180-2. PMID: 11532341.
71. Raddino R, Pelà G, **Uberti D**, Portera C, Ferrari R, Scarabelli TM, Cooper TJ, Manca C. Estrogen derivative relaxes rabbit aorta via the endothelial receptor system. *Ital Heart J.* 2001 Jan;2(1):49-54. PMID: 11214702.
72. Copani A, **Uberti D**, Sortino MA, Bruno V, Nicoletti F, Memo M. Activation of cell-cycle-associated proteins in neuronal death: a mandatory or dispensable path? *Trends Neurosci.* 2001 Jan;24(1):25-31. doi: 10.1016/s0166-2236(00)01663-5. PMID: 11163884.
73. Grilli M, Diodato E, Lozza G, Brusa R, Casarini M, **Uberti D**, Rozmahel R, Westaway D, St George-Hyslop P, Memo M, Ongini E. Presenilin-1 regulates the neuronal threshold to excitotoxicity both physiologically and pathologically. *Proc Natl Acad Sci U S A.* 2000 Nov 7;97(23):12822-7. doi:10.1073/pnas.97.23.12822. PMID: 11070093; PMCID: PMC18848.
74. **Uberti D**, Grilli M, Memo M. Contribution of NF-kappaB and p53 in the glutamate-induced apoptosis. *Int J Dev Neurosci.* 2000 Jul-Aug;18(4-5):447-54. doi: 10.1016/s0736-5748(00)00018-6. PMID: 10817929.
75. **Uberti D**, Grilli M, Memo M. Induction of p53 in the glutamate-induced cell death program. *Amino Acids.* 2000;19(1):253-61. doi: 10.1007/s007260070056. PMID: 11026496.
76. **Uberti D**, Schwartz D, Almog N, Goldfinger N, Harmelin A, Memo M, Rotter V. Epithelial cells of different organs exhibit distinct patterns of p53-dependent and p53-independent apoptosis following DNA insult. *Exp Cell Res.* 1999 Oct 10;252(1):123-33. doi: 10.1006/excr.1999.4606. PMID: 10502405.
77. **Uberti D**, Yavin E, Gil S, Ayasola KR, Goldfinger N, Rotter V. Hydrogen peroxide induces nuclear translocation of p53 and apoptosis in cells of oligodendroglia origin. *Brain Res Mol Brain Res.* 1999 Mar 5;65(2):167-75. doi : 10.1016/s0169-328x(98)00339-8. PMID: 10064887.

DANIELA UBERTI

78. Belloni M, **Uberti D**, Rizzini C, Jiricny J, Memo M. Induction of two DNA mismatch repair proteins, MSH2 and MSH6, in differentiated human neuroblastoma SH-SY5Y cells exposed to doxorubicin. *J Neurochem.* 1999 Mar;72(3):974-9. doi: 10.1046/j.1471-4159.1999.0720974.x. PMID: 10037468.
79. Belloni M, **Uberti D**, Rizzini C, Ferrari-Toninelli G, Rizzonelli P, Jiricny J, Spano P, Memo M. Distribution and kainate-mediated induction of the DNA mismatch repair protein MSH2 in rat brain. *Neuroscience.* 1999;94(4):1323-31. doi: 10.1016/s0306-4522(99)00380-2. PMID: 10625070.
80. **Uberti D**, Belloni M, Grilli M, Spano P, Memo M. Induction of tumour-suppressor phosphoprotein p53 in the apoptosis of cultured rat cerebellar neurones triggered by excitatory amino acids. *Eur J Neurosci.* 1998 Jan;10(1):246-54. doi: 10.1046/j.1460-9568.1998.00042.x. PMID: 9753133.
81. **Uberti D**, Rizzini C, Spano PF, Memo M. Characterization of tau proteins in human neuroblastoma SH-SY5Y cell line. *Neurosci Lett.* 1997 Oct 17;235(3):149-53. doi: 10.1016/s0304-3940(97)00715-5. PMID: 9406891.
82. **Uberti D**, Rizzini C, Galli P, Pizzi M, Grilli M, Lesage A, Spano P, Memo M. Priming of cultured neurons with sabeluzole results in long-lasting inhibition of neurotoxin-induced tau expression and cell death. *Synapse.* 1997 Jun;26(2):95-103. doi: 10.1002/(SICI)1098-2396(199706)26:2<95::AID-SYN1>3.0.CO;2-8. PMID: 9131769.