

LUIGIA TRABACE

Curriculum vitae et studiorum

Breve

2021

Ruolo universitario: Professore Ordinario

Settore scientifico-disciplinare: BIO14

Dipartimento: Medicina Clinica e Sperimentale - Università degli Studi di Foggia

Ricevimento: tutti i giorni, dalle 8.30 alle 9.30

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Formazione ed esperienze scientifiche e/o professionali

Ha conseguito il Dottorato di Ricerca in Farmacologia clinica e terapia medica. La Prof.ssa Trabace ha condotto parte delle sue ricerche presso il Department of Cognitive and Molecular Neuroscience, The Babraham Institute, Babraham, Cambridge, UK e presso il Laboratorio di Neurofarmacologia dell'Istituto di Ricerche Farmacologiche Mario Negri, Milano, come visiting scientist. È referee per numerose riviste internazionali (British Journal of Pharmacology, Molecular Neurobiology, Frontiers in Neuroscience, Neuropharmacology, Molecules, Antioxidants and Redox Signaling, Life Sciences, Journal of Ethnopharmacology, Brain Research, Pflug Arch European Journal of Physiology, Medical Science Monitor). E' stata Coordinatore del Corso di Dottorato di Ricerca in Neuroscienze Sperimentali. E' stata Direttore del Dipartimento di Scienze Biomediche. È risultata vincitrice di premi nazionali ed internazionali (X Congresso Nazionale della Società Italiana di Neuropsicofarmacologia, Venezia, Italia, 27-29 Settembre 1995; European Regional Congress of World Federation of Societies of Biological Psychiatry, Florence, Italy, April 8-11, 1999; Fellowship Award Winner, 14th ECNP Congress, Istanbul, Turkey, October 13-17, 2001).

Attuali interessi di ricerca e recenti progetti finanziati

La Prof.ssa Trabace svolge le proprie ricerche nei settori della neurofarmacologia di patologie a carattere neurodegenerativo e psichiatrico, della farmacologia di genere, della modulazione farmacologica di sistemi neurotrasmettitoriali da parte di sostanze naturali, e del doping in collaborazione con laboratori italiani e stranieri (Prof. Kendrick, Cambridge UK; Dr. G. Wegener, Risskov, Denmark; Prof. KH Krause, Geneva, Switzerland; Prof. M. Kas, Utrecht, Netherlands; Prof. Prof. Di Giovanni, Malta).

Responsabile Progetto Strategico Regione Puglia P-036

Responsabile Unità di Ricerca nell'ambito del PRIN 2007

Responsabile Unità di Ricerca nell'ambito del PRIN 2009

Responsabile Unità di Ricerca nell'ambito del PRIN 2015

Responsabile Unità di Ricerca nell'ambito del PRIN 2017

Altre attività scientifiche

Membro dell'Editorial Board di numerose riviste con fattore di impatto

Revisore scelto sulla base di criteri legati al merito scientifico e all'esperienza di valutazione nell'ambito della VQR 2011-2014

Revisore scelto sulla base di criteri legati al merito scientifico e all'esperienza di valutazione della Regione Sardegna

Revisore scelto sulla base di criteri legati al merito scientifico e all'esperienza di valutazione della Regione Campania

Già Componente della Commissione per la vigilanza ed il controllo sul doping e per la tutela della salute nelle attività sportive, Ministero della Salute

Componente della Lista di Esperti Antidoping, CONI

Componente del Presidio di Qualità dell'Ateneo di Foggia

Già Componente del Consiglio Direttivo della Società Italiana di Farmacologia

Presidente dell'Organismo Preposto al Benessere degli Animali, Università degli Studi di Foggia

Già Presidente del Comitato Etico Unico di Basilicata

Già Direttore del Dipartimento di Scienze Biomediche dell'Università di Foggia

Componente del Consiglio di Amministrazione dell'Università di Foggia

Incarichi d'insegnamento dell'ultimo triennio

□ **Farmacologia Generale e Farmacologia Speciale** per il Corso di Laurea in Medicina e Chirurgia.

□ **Farmacologia** per il Corso di Laurea in Scienze delle Attività Motorie e Sportive.

□ **Farmacologia** per il Corso di Laurea in Scienze Infermieristiche – sede di Matera

□ **Farmacologia** per il Corso di Laurea in Scienze e Tecnologie Biomediche

Principali pubblicazioni scientifiche dell'ultimo quinquennio (2016-2021):

Morgese, M.G., Bove, M., Francavilla, M., Schiavone, S., Dimonte, S., Colia, A.L., Bevilacqua, M., Trabace, L., Tucci, P.

Sublingual akba exerts antidepressant effects in the $\alpha\beta$ -treated mouse model

(2021) *Biomolecules*, 11 (5), art. no. 686, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85105022904&doi=10.3390%2fbiom11050686&partnerID=40&md5=4f3b013feac9f0245f8349ff776993f3)

[85105022904&doi=10.3390%2fbiom11050686&partnerID=40&md5=4f3b013feac9f0245f8349ff776993f3](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85105022904&doi=10.3390%2fbiom11050686&partnerID=40&md5=4f3b013feac9f0245f8349ff776993f3)

DOCUMENT TYPE: Article

SOURCE: Scopus

Martinotti, G., Schiavone, S., Negri, A., Vannini, C., Trabace, L., De Berardis, D., Pettorruso, M., Sensi, S.L., Di Giannantonio, M.

Suicidal behavior and club drugs in young adults

(2021) *Brain Sciences*, 11 (4), art. no. 490, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85104748805&doi=10.3390%2fbrainsci11040490&partnerID=40&md5=2f174e0b874fb286e6b961c31c088b14)

[85104748805&doi=10.3390%2fbrainsci11040490&partnerID=40&md5=2f174e0b874fb286e6b961c31c088b14](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85104748805&doi=10.3390%2fbrainsci11040490&partnerID=40&md5=2f174e0b874fb286e6b961c31c088b14)

DOCUMENT TYPE: Article

SOURCE: Scopus

Lama, A., Pirozzi, C., Annunziata, C., Morgese, M.G., Senzacqua, M., Severi, I., Calignano, A., Trabace, L., Giordano, A., Meli, R., Mattace Raso, G.

Palmitoylethanolamide counteracts brain fog improving depressive-like behaviour in obese mice:

Possible role of synaptic plasticity and neurogenesis

(2021) *British Journal of Pharmacology*, 178 (4), pp. 845-859.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084377340&doi=10.1111%2fbph.15071&partnerID=40&md5=16d4d8fd1d43d9cc16f8eb6b7c63a7bc)

[85084377340&doi=10.1111%2fbph.15071&partnerID=40&md5=16d4d8fd1d43d9cc16f8eb6b7c63a7bc](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084377340&doi=10.1111%2fbph.15071&partnerID=40&md5=16d4d8fd1d43d9cc16f8eb6b7c63a7bc)

DOCUMENT TYPE: Article

SOURCE: Scopus

Morgese, M.G., Schiavone, S., Bove, M., Colia, A.L., Dimonte, S., Tucci, P., Trabace, L.
N-3 PUFA prevent oxidative stress in a rat model of beta-amyloid-induced toxicity
(2021) *Pharmaceuticals*, 14 (4), art. no. 339, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85104556133&doi=10.3390%2fph14040339&partnerID=40&md5=53052d4a6a4daec8c87bfd909066acf5>
DOCUMENT TYPE: Article
SOURCE: Scopus

di Giannantonio, M., Negri, A., Schiavone, S., Vannini, C., Pettorruso, M., De-Giorgio, F., Verrastro, V., Trabace, L., Corbo, M., Gottardo, R., Camuto, C., Mazzarino, M., Barra, A., De Berardis, D., Lopez, J.I., Del Villar, C.M., Schifano, F., Martinotti, G.
Prescription Drug Misuse in “Clubbers” and Disco Goers in Ibiza
(2020) *Frontiers in Psychiatry*, 11, art. no. 592594, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85098594208&doi=10.3389%2ffpsy.2020.592594&partnerID=40&md5=18bc58dab40c1b86aa0e08abfe27a10c>
DOCUMENT TYPE: Article
SOURCE: Scopus

Bove, M., Tucci, P., Dimonte, S., Trabace, L., Schiavone, S., Morgese, M.G.
Postnatal Antioxidant and Anti-inflammatory Treatments Prevent Early Ketamine-Induced Cortical Dysfunctions in Adult Mice
(2020) *Frontiers in Neuroscience*, 14, art. no. 590088, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85096210134&doi=10.3389%2ffnins.2020.590088&partnerID=40&md5=acb62d3c090ec53467dbf96a3ccce803>
DOCUMENT TYPE: Article
SOURCE: Scopus

Mhillaj, E., Papi, M., Paciello, F., Silvestrini, A., Rolesi, R., Palmieri, V., Perini, G., Fetoni, A.R., Trabace, L., Mancuso, C.
Celecoxib Exerts Neuroprotective Effects in β -Amyloid-Treated SH-SY5Y Cells Through the Regulation of Heme Oxygenase-1: Novel Insights for an Old Drug
(2020) *Frontiers in Cell and Developmental Biology*, 8, art. no. 561179, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092454141&doi=10.3389%2ffcell.2020.561179&partnerID=40&md5=24b56b8cd67be84048106a58b503aced>
DOCUMENT TYPE: Article
SOURCE: Scopus

Mele, A., Mantuano, P., De Bellis, M., Rana, F., Sanarica, F., Conte, E., Morgese, M.G., Bove, M., Rolland, J.-F., Capogrosso, R.F., Pierno, S., Camerino, G.M., Trabace, L., De Luca, A.
Corrigendum to A long-term treatment with taurine prevents cardiac dysfunction in mdx mice [Translational Research Volume 204 (February 2019) Pages 82–99](S1931524418301816)(10.1016/j.trsl.2018.09.004)
(2020) *Translational Research*, 223, p. 107.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089159457&doi=10.1016%2fj.trsl.2020.06.008&partnerID=40&md5=b01c8110c2373b0432baa6f02daf6826>

DOCUMENT TYPE: Erratum

SOURCE: Scopus

Martinotti, G., Negri, A., Schiavone, S., Montemitro, C., Vannini, C., Baroni, G., Pettorruso, M., De Giorgio, F., Giorgetti, R., Verrastro, V., Trabace, L., Garcia, A., Castro, I., Iglesias Lopez, J., Merino Del Villar, C., Schifano, F., di Giannantonio, M.

Club Drugs: Psychotropic Effects and Psychopathological Characteristics of a Sample of Inpatients (2020) *Frontiers in Psychiatry*, 11, art. no. 879, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090954572&doi=10.3389%2ffpsy.2020.00879&partnerID=40&md5=31c97b3f4c488e7834b9c0614b305d8a)

[85090954572&doi=10.3389%2ffpsy.2020.00879&partnerID=40&md5=31c97b3f4c488e7834b9c0614b305d8a](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090954572&doi=10.3389%2ffpsy.2020.00879&partnerID=40&md5=31c97b3f4c488e7834b9c0614b305d8a)

DOCUMENT TYPE: Article

SOURCE: Scopus

Morgese, M.G., Schiavone, S., Maffione, A.B., Tucci, P., Trabace, L.

Depressive-like phenotype evoked by lifelong nutritional omega-3 deficiency in female rats:

Crosstalk among kynurenine, Toll-like receptors and amyloid beta oligomers

(2020) *Brain, Behavior, and Immunity*, 87, pp. 444-454.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85078733237&doi=10.1016%2fj.bbi.2020.01.015&partnerID=40&md5=7ccb884710b97feb82353b3eff6fbee2)

[85078733237&doi=10.1016%2fj.bbi.2020.01.015&partnerID=40&md5=7ccb884710b97feb82353b3eff6fbee2](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85078733237&doi=10.1016%2fj.bbi.2020.01.015&partnerID=40&md5=7ccb884710b97feb82353b3eff6fbee2)

DOCUMENT TYPE: Article

SOURCE: Scopus

Schiavone, S., Morgese, M.G., Bove, M., Colia, A.L., Maffione, A.B., Tucci, P., Trabace, L., Cuomo, V.

Ketamine administration induces early and persistent neurochemical imbalance and altered NADPH oxidase in mice

(2020) *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, 96, art. no. 109750, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072053476&doi=10.1016%2fj.pnpbp.2019.109750&partnerID=40&md5=dfeb520f5a786ee7fcca83962ed5cf59)

[85072053476&doi=10.1016%2fj.pnpbp.2019.109750&partnerID=40&md5=dfeb520f5a786ee7fcca83962ed5cf59](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072053476&doi=10.1016%2fj.pnpbp.2019.109750&partnerID=40&md5=dfeb520f5a786ee7fcca83962ed5cf59)

DOCUMENT TYPE: Article

SOURCE: Scopus

Schiavone, S., Tucci, P., Trabace, L., Morgese, M.G.

Early celastrol administration prevents ketamine-induced psychotic-like behavioral dysfunctions, oxidative stress and IL-10 reduction in the cerebellum of adult mice

(2019) *Molecules*, 24 (21), art. no. 3993, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074624056&doi=10.3390%2fmolecules24213993&partnerID=40&md5=22c5f4ea6271b6bd7d30a528cc64d6aa)

[85074624056&doi=10.3390%2fmolecules24213993&partnerID=40&md5=22c5f4ea6271b6bd7d30a528cc64d6aa](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074624056&doi=10.3390%2fmolecules24213993&partnerID=40&md5=22c5f4ea6271b6bd7d30a528cc64d6aa)

DOCUMENT TYPE: Article

SOURCE: Scopus

Mhillaj, E., Tarozzi, A., Pruccoli, L., Cuomo, V., Trabace, L., Mancuso, C.

Curcumin and heme oxygenase: Neuroprotection and beyond

(2019) *International Journal of Molecular Sciences*, 20 (10), art. no. 2419, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066246551&doi=10.3390%2fijms20102419&partnerID=40&md5=2d668e228465a7e6085531ce42c724bf)

[85066246551&doi=10.3390%2fijms20102419&partnerID=40&md5=2d668e228465a7e6085531ce42c724bf](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066246551&doi=10.3390%2fijms20102419&partnerID=40&md5=2d668e228465a7e6085531ce42c724bf)

DOCUMENT TYPE: Review

SOURCE: Scopus

Schiavone, S., Neri, M., Maffione, A.B., Frisoni, P., Morgese, M.G., Trabace, L., Turillazzi, E.
Increased iNOS and nitrosative stress in dopaminergic neurons of MDMA-exposed rats
(2019) *International Journal of Molecular Sciences*, 20 (5), art. no. 1242, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062987585&doi=10.3390%2fijms20051242&partnerID=40&md5=c78b4ec94e4b3e79b281895d7fd1fb75)

[85062987585&doi=10.3390%2fijms20051242&partnerID=40&md5=c78b4ec94e4b3e79b281895d7fd1fb75](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062987585&doi=10.3390%2fijms20051242&partnerID=40&md5=c78b4ec94e4b3e79b281895d7fd1fb75)

DOCUMENT TYPE: Article

SOURCE: Scopus

Mele, A., Mantuano, P., De Bellis, M., Rana, F., Sanarica, F., Conte, E., Morgese, M.G., Bove, M.,
Rolland, J.-F., Capogrosso, R.F., Pierno, S., Camerino, G.M., Trabace, L., De Luca, A.
A long-term treatment with taurine prevents cardiac dysfunction in mdx mice
(2019) *Translational Research*, 204, pp. 82-99.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055646582&doi=10.1016%2fj.trsl.2018.09.004&partnerID=40&md5=81ad8d967a998033a1ef86899d974df2)

[85055646582&doi=10.1016%2fj.trsl.2018.09.004&partnerID=40&md5=81ad8d967a998033a1ef86899d974df2](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055646582&doi=10.1016%2fj.trsl.2018.09.004&partnerID=40&md5=81ad8d967a998033a1ef86899d974df2)

DOCUMENT TYPE: Article

SOURCE: Scopus

Morgese, M.G., Trabace, L.

Monoaminergic system modulation in depression and Alzheimer's disease: A new standpoint?

(2019) *Frontiers in Pharmacology*, 10 (MAY), art. no. 483, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85068856532&doi=10.3389%2ffphar.2019.00483&partnerID=40&md5=f51b8516dfd9ddca4cd4dd85ec2b74d0)

[85068856532&doi=10.3389%2ffphar.2019.00483&partnerID=40&md5=f51b8516dfd9ddca4cd4dd85ec2b74d0](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85068856532&doi=10.3389%2ffphar.2019.00483&partnerID=40&md5=f51b8516dfd9ddca4cd4dd85ec2b74d0)

DOCUMENT TYPE: Review

SOURCE: Scopus

Mhillaj, E., Cuomo, V., Trabace, L., Mancuso, C.

The heme oxygenase/biliverdin reductase system as effector of the neuroprotective outcomes of
herb-based nutritional supplements

(2019) *Frontiers in Pharmacology*, 10, art. no. 01298, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075600377&doi=10.3389%2ffphar.2019.01298&partnerID=40&md5=a86452fb96414c01bbf04eea820d2540)

[85075600377&doi=10.3389%2ffphar.2019.01298&partnerID=40&md5=a86452fb96414c01bbf04eea820d2540](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075600377&doi=10.3389%2ffphar.2019.01298&partnerID=40&md5=a86452fb96414c01bbf04eea820d2540)

DOCUMENT TYPE: Article

SOURCE: Scopus

Morgese, M.G., Schiavone, S., Bove, M., Mhillaj, E., Tucci, P., Trabace, L.

Sub-chronic celecoxib prevents soluble beta amyloid-induced depressive-like behaviour in rats

(2018) *Journal of Affective Disorders*, 238, pp. 118-121.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047848512&doi=10.1016%2fj.jad.2018.05.030&partnerID=40&md5=18e3d92d1391a6e405d0bd7a311180db)

[85047848512&doi=10.1016%2fj.jad.2018.05.030&partnerID=40&md5=18e3d92d1391a6e405d0bd7a311180db](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047848512&doi=10.1016%2fj.jad.2018.05.030&partnerID=40&md5=18e3d92d1391a6e405d0bd7a311180db)

DOCUMENT TYPE: Article

SOURCE: Scopus

Bove, M., Mhillaj, E., Tucci, P., Giardino, I., Schiavone, S., Morgese, M.G., Trabace, L.

Effects of n-3 PUFA enriched and n-3 PUFA deficient diets in naïve and A β -treated female rats
(2018) *Biochemical Pharmacology*, 155, pp. 326-335.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050253319&doi=10.1016%2fj.bcp.2018.07.017&partnerID=40&md5=0e30c8f60dd5344d2c0ac9bca0c82172>
DOCUMENT TYPE: Article
SOURCE: Scopus

Mantuano, P., Sanarica, F., Conte, E., Morgese, M.G., Capogrosso, R.F., Cozzoli, A., Fonzino, A., Quaranta, A., Rolland, J.-F., De Bellis, M., Camerino, G.M., Trabace, L., De Luca, A.
Effect of a long-term treatment with metformin in dystrophic mdx mice: A reconsideration of its potential clinical interest in Duchenne muscular dystrophy
(2018) *Biochemical Pharmacology*, 154, pp. 89-103.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85046089607&doi=10.1016%2fj.bcp.2018.04.022&partnerID=40&md5=c8c8d63e53db65238f38abc1ff710f83>
DOCUMENT TYPE: Article
SOURCE: Scopus

Schiavone, S., Trabace, L.
The use of antioxidant compounds in the treatment of first psychotic episode: Highlights from preclinical studies
(2018) *CNS Neuroscience and Therapeutics*, 24 (6), pp. 465-472.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85043712131&doi=10.1111%2fcns.12847&partnerID=40&md5=2c795af3a4c09cf7f734f165e07d7a0e>
DOCUMENT TYPE: Review
SOURCE: Scopus

Bove, M., Ike, K., Eldering, A., Buwalda, B., de Boer, S.F., Morgese, M.G., Schiavone, S., Cuomo, V., Trabace, L., Kas, M.J.H.
The Visible Burrow System: A behavioral paradigm to assess sociability and social withdrawal in BTBR and C57BL/6J mice strains
(2018) *Behavioural Brain Research*, 344, pp. 9-19.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041863062&doi=10.1016%2fj.bbr.2018.02.003&partnerID=40&md5=78373a211ec3154b68f4ea4e548b5b44>
DOCUMENT TYPE: Article
SOURCE: Scopus

Caraci, F., Spampinato, S.F., Morgese, M.G., Tascetta, F., Salluzzo, M.G., Giambirtone, M.C., Caruso, G., Munafò, A., Torrisi, S.A., Leggio, G.M., Trabace, L., Nicoletti, F., Drago, F., Sortino, M.A., Copani, A.
Neurobiological links between depression and AD: The role of TGF- β 1 signaling as a new pharmacological target
(2018) *Pharmacological Research*, 130, pp. 374-384.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041907216&doi=10.1016%2fj.phrs.2018.02.007&partnerID=40&md5=37bf14513960aadb17da42062970c224>
DOCUMENT TYPE: Review
SOURCE: Scopus

Morgese, M.G., Schiavone, S., Mhillaj, E., Bove, M., Tucci, P., Trabace, L.
N-3 PUFA diet enrichment prevents amyloid beta-induced depressive-like phenotype
(2018) *Pharmacological Research*, 129, pp. 526-534.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85036605466&doi=10.1016%2fj.phrs.2017.11.034&partnerID=40&md5=c78e8d187a272d8dde5103b259cc925b>
DOCUMENT TYPE: Article
SOURCE: Scopus

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