

FORMATO EUROPEO
PER IL CURRICULUM

VITAE



INFORMAZIONI PERSONALI

Nome e Cognome Anna Maria Malagoni

ISTRUZIONE E FORMAZIONE

Laurea in Medicina e Chirurgia

Conseguita presso l'Università di Ferrara

Diploma di Specializzazione in Medicina dello Sport

Conseguito presso l'Università di Ferrara

Dottorato di Ricerca in Scienze Biomediche, Endocrinologiche e Neurofisiologiche.

Curriculum: "Esercizio e malattie vascolari "

Conseguito presso l'Università di Ferrara

Master Universitario di secondo livello: "Terapia compressiva e metodiche di riparazione tissutale"

Conseguito presso l'Università di Ferrara

Master Universitario di secondo livello "Scuola di ricerca clinica ed epidemiologica: monitoraggio, qualità e statistica"

Conseguito presso l'Università di Ferrara

Idoneità Scientifica Nazionale a Professore di II fascia

Abilitazione Scientifica Nazionale 2016, Settore concorsuale 06/N2-Scienze Esercizio Fisico e dello Sport

PROFILO SCIENTIFICO

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Indicatori Scopus: H-index: 28

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ESPERIENZA LAVORATIVA

01/06/2017-31/05/2021

Titolare di Borsa di studio

presso il Centro Malattie Vascolari, Azienda Ospedaliero Universitaria di Ferrara

18/09/2017–data attuale

Honorary Clinical Research Fellow, Imperial College London

presso Section of Vascular Surgery, Department of Surgery and Cancer, Imperial College London, London (UK)

01/06/2015–31/05/2017	<p>Titolare di Borsa di studio presso il Modulo Dipartimentale di Chirurgia Traslazionale dell’Azienda Ospedaliero Universitaria di Ferrara.</p>
01/06/2011–31/05/2015	<p>Titolare di Borsa di Studio presso il Programma Fisiopatologia dell’Apparato Vascolare Periferico e Day Surgery, Azienda Ospedaliero Universitaria di Ferrara.</p>
01/02/2010–31/01/2011	<p>Titolare di Borsa di Studio presso l’U.O. di Medicina Riabilitativa dell’Azienda Ospedaliero Universitaria di Ferrara.</p>
01/01/2007–31/12/2009	<p>Dottorato di Ricerca in Scienze Biomediche, Endocrinologiche e Neurofisiologiche, curriculum “Esercizio e Malattie Vascolari”, Università di Ferrara.</p>
2004–2013	<p>Attività assistenziale presso l’Ambulatorio di Riabilitazione Vascolare, U.O. di Medicina Riabilitativa, Funzione Interdipartimentale di Riabilitazione Vascolare, Azienda Ospedaliero Universitaria di Ferrara.</p>
01/06/2004–01/01/2007	<p>Titolare di Assegno di Ricerca presso l’Istituto di Chirurgia Generale Azienda Ospedaliera-Universitaria di Ferrara.</p>
2003–2004	<p>Attività di specialista ambulatoriale per la branca di Medicina dello Sport in qualità di supplente presso le USL di Ferrara e Rovigo.</p>
2001–2020	<p>Referente medico per i controlli anti-doping di una Federazione olimpica internazionale (International Biathlon Union)</p>
01/01/2000–30/10/2003	<p>Scuola di Specializzazione in Medicina dello Sport presso il "Centro Studi Biomedici applicati allo Sport", Università di Ferrara</p>
01/04/1999–31/12/1999	<p>Medico frequentatore presso la Clinica Ortopedica dell’Azienda Ospedaliero Universitaria di Ferrara.</p>
1998–1999	<p>Attività libero professionale presso un Centro Medico privato di Ortopedia, Fisioterapia e Traumatologia dello Sport.</p>

PRINCIPALI AMBITI DI RICERCA

- Attività di ricerca sulla valutazione funzionale e sperimentazione di programmi originali di sport terapia per il paziente a ridotta performance fisica (in particolare affetti da malattie vascolari periferiche, insufficienza renale cronica e dialisi, patologie neurologiche quali post-stroke e sclerosi multipla)
- Attività di ricerca per la federazione olimpica internazionale "International Biathlon Union" contribuendo a un programma pluriennale di studio relativo alle modificazioni dei valori ematologici nei biatleti durante le stagioni agonistiche.
- Attività di ricerca sulle metodiche di compressione degli arti inferiori nelle patologie vascolari e applicazione combinata di esercizio fisico.
- Attività di ricerca sull’insufficienza venosa cerebrospinale cronica e perfusione cerebrale (in particolare occupandosi delle misure di performance fisica e cognitiva dei soggetti in studio)

**PARTECIPAZIONE A RICERCHE
NAZIONALI E INTERNAZIONALI**

- Studio della perfusione tissutale con metodica NIRS (Near-Infrared Spectroscopy).
 - Studio della rigenerazione tissutale con terapia staminale e cellule mononucleate autologhe e supporto di esercizio fisico.
- 09/03/2018–18/09/2018 Study coordinator, trial "A Multicenter Randomised Controlled Study: Does Neuromuscular Electrical Stimulation Improve the Absolute Walking Distance in Patients with Intermittent Claudication (NESIC) compared to best available treatment?" Imperial College London (PI Prof Alun Davies)
- 01/09/2016–31/08/2019 Co-investigator progetto finanziato di Ricerca Finalizzata 2013 RF2013-02358029 " Validation of a novel non-invasive technique based on real time ultrasound B-mode to assess the jugular venous pulse" (PI Prof Paolo Zamboni)
- 16/08/2012–31/12/2015 Co-investigator responsabile delle valutazioni funzionali (capacità motorie, sensoriali e cognitive) e coordinatore dello studio per il Centro di Ferrara, trial multicentrico NCT01371760 "BRAVE DREAMS (BRAIn VENous DRainage Exploite Against Multiple Sclerosis)" (PI Prof Paolo Zamboni)
- 01/01/2011–31/12/2011 Collaboratore all'interno dell'Unità Operativa responsabile delle valutazioni funzionali e training per lo studio "Trial randomizzato sull'esercizio nei pazienti in trattamento dialitico, mortalità e performance" nell'ambito del programma strategico: Costituzione di un network multiregionale per la prevenzione della malattia renale e migliorare il management clinico del paziente nefropatico" Ministero della Salute– Bando Ricerca Finalizzata 2006 In collaborazione con CNR IBIM di Reggio Calabria, Ospedali di Reggio Calabria, Mangiagalli IRCSS di Milano, S. Paolo di Milano e altri centri nazionali.
- 10/10/2008–10/10/2009 Co-investigator responsabile delle valutazioni funzionali (performance fisica e cognitiva) per lo studio "Endovascular treatment of multiple sclerosis: pilot study (EVTMS)" (PI: Prof. Paolo Zamboni/Prof. Robert Zivadinov) in collaborazione con Buffalo Neuroimaging Analysis Center, Jacobs Neurological Institute, University of Buffalo, NY, USA.
- 10/10/2008-10/10/2009 Co-investigator trial "Chronic venous insufficiency in multiple sclerosis. A haemodynamic pilot study of cerebrospinal venous drainage using non-conventional MRI measures and sonography. HSIRB # NEU2320808E "(PI: Prof. Paolo Zamboni/Prof. Robert Zivadinov) in collaborazione con Buffalo Neuroimaging Analysis Center, Jacobs Neurological Institute, University of Buffalo, NY, USA.
- 01/01/2006-31/12/2006 Co-investigator studio "Artificial Intelligence Evoking Target Testing in Antidoping" (AR.I.E.T.T.A.) in collaborazione con International Biathlon Union. (PI Prof Fabio Manfredini) Bando: World Anti-Doping Agency research Grants Health, Medical and Research Committee.
- 31/07/2004-30/06/2005 Co-investigator e coordinatore per il centro di Ferrara per lo studio multicentrico NiCox S.A. NCX-4016-X-208: "A multicenter, double-blind, randomized, parallel group study to assess the effects of NCX 4016 vs placebo on walking distance in patients with peripheral arterial occlusive disease at Leriche-Fontaine stage II" (PI Prof Paolo Zamboni)

ATTIVITA' DIDATTICA	Dal 2002 svolge attività didattica nell'ambito di corsi di laurea triennali e magistrali e post-laurea.
MADRELINGUA	Italiano
ALTRE LINGUE	INGLESE
<ul style="list-style-type: none"> • Capacità di lettura • Capacità di scrittura • Capacità di espressione orale 	<p>Livello: eccellente</p> <p>Livello: eccellente</p> <p>Livello: eccellente</p>
CAPACITÀ E COMPETENZE TECNICHE	Buona padronanza degli strumenti Microsoft Office
ALTRO	
AFFILIAZIONI	
Dal 10/04/2006	Socio ordinario Federazione Medico Sportiva Italiana
Dal 01/10/2011	Membro (medical expert) dell'International Compression Club (associazione internazionale di professionisti esperti in terapia compressiva)
Dal 29/09/2012	Membro del Centro Malattie Vascolari dell'Università di Ferrara
Dal 01/06/2017	Membro dell'Editorial Board della rivista "Veins and Lymphatics" (Sezione: Exercise and Compression)
Dal 02/02/2018	Professional Member American College of Sports Medicine
PREMI E RICONOSCIMENTI PER ATTIVITÀ SCIENTIFICA	<ul style="list-style-type: none"> • Best Poster Award: 2nd Annual International Society for Neurovascular Disease scientific meeting, February 18-22, 2012, Orlando, Florida, USA. • Best Poster Award "City of Graz": 52nd International Neuropsychiatric Pula Congress, June 20-23, 2012, Pula, Croatia. • Second Poster Prize "Mind and Brain-58th International Neuropsychiatric Pula Congress, May 25-27, 2018, Pula, Croatia. • In data 06/11/2012 è stata designata cultore della materia nella disciplina di "Chirurgia Vascolare e Chirurgia cardio-toraco vascolare", dal Dipartimento di Morfologia, Chirurgia e Medicina Sperimentale dell'Università di Ferrara. • Nel 2013 è stata selezionata dall'Ufficio Ricerca e Innovazione dell'Azienda Ospedaliero Universitaria di Ferrara per entrare a far parte del Progetto di attività di "Formazione alla Ricerca" dal titolo "Creazione di un network aziendale a supporto della ricerca clinica" mirante alla formazione di "Esperti Aziendali" della ricerca.

PUBBLICAZIONI

1. Scerrati A, Menegatti E, Zamboni M, Malagoni AM, Tessari M, Galeotti R, Zamboni P. Internal Jugular Vein Thrombosis. Etiology, Symptomatology, Diagnosis and Current Treatment. *Diagnostics* 2021. 2021 Feb 23;11(2):378. doi: 10.3390/diagnostics11020378. PMID: 33672254; PMCID: PMC7926529.
2. Beggs, C., Tavoni, V., Menegatti, E., Tessari, M., Giovanardi, L., Ragazzi, R., & Malagoni, A. M. (2021). Spectral characteristics of the internal jugular vein and central venous pressure pulses: a proof of concept study. *Veins and Lymphatics*, 10(1). <https://doi.org/10.4081/vl.2021.9732>
3. Zamboni P, Malagoni AM, Menegatti E, Ragazzi R, Tavoni V, Tessari M, Beggs CB. Central venous pressure estimation from ultrasound assessment of the jugular venous pulse. *PLoS One*. 2020 Oct 28;15(10):e0240057. doi: 10.1371/journal.pone.0240057.
4. Zollino I, Campioni D, Sibilla MG, Tessari M, Malagoni AM, Zamboni P. A phase II randomized clinical trial for the treatment of recalcitrant chronic leg ulcers using centrifuged adipose tissue containing progenitor cells. *Cytotherapy*.2019;21:200-211.
5. Baggetta R, D'Arrigo G, Torino C, ElHafeez SA, Manfredini F, Mallamaci F, Zoccali C, Tripepi G; EXCITE Working group. Effect of a home based, low intensity, physical exercise program in older adults dialysis patients: a secondary analysis of the EXCITE trial. *BMC Geriatr*. 2018;18:248.
6. Tessari M, Tisato V, Rimondi E, Zamboni P, Malagoni AM. Effects of intermittent pneumatic compression treatment on clinical outcomes and biochemical markers in patients at low mobility with lower limb edema. *J Vasc Surg Venous Lymphat Disord*. 2018;6:500-510.
7. Giancesini S, Sisini F, Di Domenico G, Secchiero J, Malagoni AM, Menegatti E, Gambaccini M, Zamboni P. Lower limbs venous kinetics and consequent impact on drainage direction. *Phlebology*. 2018;33:107-114.
8. Giancesini S, Occhionorelli S, Menegatti E, Malagoni AM, Tessari M, Zamboni P. Femoral vein valve incompetence as a risk factor for junctional recurrence. *Phlebology*. 2018;33:206-212.
9. Zamboni P, Sisini F, Menegatti E, Taibi A, Gadda G, Tavoni V, Malagoni AM, Tessari M, Giancesini S, Gambaccini M. Ultrasound Monitoring of Jugular Venous Pulse during Space Missions: Proof of Concept. *Ultrasound Med Biol*. 2018;44:726-733.
10. Menegatti E, Tessari M, Vannini ME, Giancesini S, Malagoni AM, Ciorba A, Mazzoli M, Sisini F, Salvi F, Pelucchi S, Zamboni P. High Resolution M-mode Evaluation of Jugular Vein Valves in Patients with Neurological and Neurosensory Disorders. *Curr Neurovasc Res*. 2017;14:316-322.
11. Manfredini F, Mallamaci F, D'Arrigo G, Baggetta R, Bolignano D, Torino C, Lamberti N, Bertoli S, Ciurlino D, Rocca-Rey L, Barilla A, Battaglia Y, Rapanà, RM, Zuccalà A, Bonanno G, Fatuzzo P, Rapisarda F, Rastelli S, Fabrizi F, Messa P, De Paola L, Lombardi L, Cupisti A, Fuiano G, Lucisano G, Summaria C, Felisatti M, Pozzato E, Malagoni AM, Castellino P, Aucella F, ElHafeez SA, Provenzano PF, Tripepi G, Catizone L, Zoccali C. Exercise in Patients on Dialysis: A Multicenter, Randomized Clinical Trial. *J Am Soc Nephrol*. 2017;28:1259-1268.
12. Giancesini S, Tessari M, Bacciglieri P, Malagoni AM, Menegatti E, Occhionorelli S, Basaglia N, Zamboni P. A specifically designed aquatic exercise protocol to reduce chronic lower limb edema. *Phlebology*. 2017;32:594-600.
13. Lamberti N, Straudi S, Malagoni AM, Argirò M, Felisatti M, Nardini E, Zamboni C, Basaglia N, Manfredini F. Effects of low-intensity endurance and resistance training on mobility in chronic stroke survivors. A pilot, randomized, controlled study. *Eur J Phys Rehabil Med*. 2017;53:228-239.
14. Lamberti N, Malagoni AM, Felisatti M, Caracciolo S, Resch N, Litmanen H, Dalfollo D, Jeannier P, Zhukovskaja L, Carrabre JE, Manfredini F. Anti-doping attitudes among elite athletes: a cross sectional study in biathlon using a suitably developed questionnaire. *J Sports Med Phys Fitness*. 2017;57:610-623.
15. Giancesini S, Menegatti E, Malagoni AM, Occhionorelli S, Zamboni P. Mini-invasive high-tie by clip apposition versus crosssection by ligature: Long-term outcomes and review of the available therapeutic options. *Phlebology*. 2017;32:249-255.
16. Giancesini S, Gafà R, Occhionorelli S, Menegatti E, Malagoni AM, Spath P, Lanza G, Zamboni P. Histologic and sonographic features of holmium laser in chronic venous disease treatment. *Int Angiol*.

- 2017;36:122-128.
17. Pomidori L, Lamberti N, Malagoni AM, Manfredini F, Pozzato E, Felisatti M, Catizone L, Barillà A, Zuccalà A, Tripepi G, Mallamaci F, Zoccali C, Cogo A. Respiratory muscle impairment in dialysis patients: can minimal dose of exercise limit the damage? A Preliminary study in a sample of patients enrolled in the EXCITE trial. *J Nephrol.* 2016;29:863-869.
 18. Malagoni AM, Cavazza S, Ferraresi G, Grassi G, Felisatti M, Lamberti N, Basaglia N, Manfredini F. Effects of a "test in-train out" walking program versus supervised standard rehabilitation in chronic stroke patients: a feasibility and pilot randomized study. *Eur J Phys Rehabil Med.* 2016;52:279-287.
 19. Lamberti N, Malagoni AM, Ficarra V, Basaglia N, Manfredini R, Zamboni P, Mascoli F, Manfredini F. Structured Home-Based Exercise Versus Invasive Treatment: A Mission Impossible? A Pilot Randomized Study in Elderly Patients With Intermittent Claudication. *Angiology.* 2016;67:772-780.
 20. Malagoni AM, Lamberti N, Carrabre JE, Litmanen H, Jeannier P, Zhukovskaja L, Dal Follo D, Zamboni P, Resch N, Manfredini F. Planning the International Competition Schedules for the Health of Elite Athletes: A 21-Year Retrospective Study Evaluating the Effectiveness and Economic Impact in an Olympic Sport. *PLoS One.* 2015 Jun 26;10(6):e0130338. doi: 10.1371/journal.pone.0130338.
 21. Manfredini F, Lamberti N, Malagoni AM, Felisatti M, Zuccalà A, Torino C, Tripepi G, Catizone L, Mallamaci F, Zoccali C. The role of deconditioning in the end-stage renal disease myopathy: physical exercise improves altered resting muscle oxygen consumption. *Am J Nephrol.* 2015;41(4-5):329-336.
 22. Tessari M, Giancesini S, Menegatti E, Zuolo M, Malagoni AM, Vannini ME, Zamboni P. Elastic stockings effect on leg volume variability in healthy workers under prolonged gravitational gradient exposure. *Veins and Lymphatics* 2015. DOI:http://dx.doi.org/10.4081/vl.2015.5182.
 23. Manfredini F, Lamberti N, Malagoni AM, Zamboni P, Basaglia N, Mascoli F, Manfredini R, Zamboni P. Reliability of the vascular claudication reporting in diabetic patients with peripheral arterial disease: a study with near-infrared spectroscopy. *Angiology.* 2015;66:365-374.
 24. Manfredini F, Malagoni AM, Felisatti M, Mandini S, Lamberti N, Manfredini R, Mascoli F, Basaglia N, Zamboni P. Acute oxygenation changes on ischemic foot of a novel intermittent pneumatic compression device and of an existing sequential device in severe peripheral arterial disease. *BMC Cardiovasc Disord.* 2014;31:14:40.
 25. Sisini F, Giancesini S, Menegatti E, Taibi A, Tessari M, Di Domenico G, Malagoni AM, Gambaccini M. On the consistency of flow rate color Doppler assessment for the internal jugular vein. *Veins and Lymphatics* 2014 DOI:10.4081/vl.2014.1863.
 26. Zamboni P, Sisini F, Menegatti E, Taibi A, Malagoni AM, Morovic S, Gambaccini M. An ultrasound model to calculate the brain blood outflow through collateral vessels: a pilot study. *BMC Neurol.* 2013;13:81.
 27. Tessari M, Menegatti E, Giancesini S, Pala M, Zuolo M, Malagoni AM, Manfredini R, Zamboni P. Assessment of lower limbs edema in healthy workers who are exposed to long-term gravity. *Veins and Lymphatics* 2013 DOI:10.4081/vl.2013.e19.
 28. Malagoni AM, Felisatti M, Lamberti N, Basaglia N, Manfredini R, Salvi F, Zamboni P, Manfredini F. Muscle oxygen consumption by NIRS and mobility in multiple sclerosis patient. *BMC Neurology* 2013;13:52.
 29. Manfredini F, Malagoni AM, Manfredini R. Ankle Brachial Pressure Index: Faulty or Overused? *Angiology* 2013;64:89-92.
 30. D'Addato S, Tartagni E, Dormi A, Ballarini G, Macciantelli M, Malagoni AM, Manfredini F, Manfredini R, Borghi C. Can peripheral arterial disease be early screened for in a podiatric setting? A preliminary study in a cohort of asymptomatic adults. *Eur Rev Med Pharmacol Sci* 2012;16:1646-1650.
 31. Manfredini F, Malagoni AM, Mandini S, Felisatti M, Mascoli F, Basaglia N, Roberto Manfredini R, Mikhailidis DP, Zamboni P. Near-infrared spectroscopy assessment following exercise training in patients with intermittent claudication and in untrained healthy subjects. *Vasc Endovascular Surg.* 2012;46:315-324.
 32. De Giorgi A, Achilli F, Fabbian F, Pala M, Menegatti E, Malagoni AM, Manfredini F, Manfredini R. Sudden death in competitive athletes: does a circadian variation in occurrence exist? *Am J Emerg Med.* 2012;30:1306-1309.
 33. Zamboni P, Menegatti E, Pomidori L, Morovic S, Taibi A, Malagoni AM, Cogo AL, Gambaccini M. Does thoracic pump influence the cerebral venous return? *J Appl Physiol.* 2012;112:904-910.
 34. Zamboni P, Menegatti E, Weinstock-Guttman B, Dwyer MG, Schirda CV, Malagoni AM, Hojnacki D, Kennedy C, Carl E, Bergsland N, Magnano C, Bartolomei I, Salvi F, Zivadinov R. Hypoperfusion of brain parenchyma is associated with the severity of chronic cerebrospinal venous insufficiency in patients with multiple sclerosis: a cross-sectional preliminary report. *BMC Med.* 2011;9:22.
 35. Zivadinov R, Galeotti R, Hojnacki D, Menegatti E, Dwyer MG, Schirda C, Anna M Malagoni AM, Marr K, Kennedy C, Bartolomei I, Magnano C, Salvi F, Weinstock-Guttman B, Zamboni P. Value of MR venography for detection of internal jugular vein anomalies in multiple sclerosis. A pilot longitudinal study. *AJNR Am J Neuroradiol.* 2011;32:938-946.
 36. Manfredini F, Malagoni AM, Litmanen H, Zhukovskaja L, Jeannier Pierre, DalFollo D, Felisatti M, Besseberg A,

- Geistlinger M, Bayer P, Carrabre J. Performance and blood monitoring in sports: the artificial intelligence evoking target testing in antidoping (AR.I.E.T.T.A.) project. *J Sports Med Phys Fitness*. 2011;51:153-159.
37. Manfredini R, Fabbian F, Pala M, Tiseo R, De Giorgi A, Manfredini F, Malagoni AM, Signani F, Andreati C, Boari B, Salmi R, Imberti D, Gallerani M. Seasonal and weekly patterns of occurrence of acute cardiovascular diseases: does a gender difference exist? *J Womens Health (Larchmt)*. 2011;20:1663-1668.
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 39. Zivadinov R, Schirda C, Dwyer MG, Haacke ME, Weinstock-Guttman B, Menegatti E, Heininen-Brown M, Magnano C, Malagoni AM, Wack DS, Hojnacki D, Kennedy C, Carl E, Bergsland N, Hussein S, Poloni G, Bartolomei I, Salvi F, Zamboni P. Chronic cerebrospinal venous insufficiency and iron deposition on susceptibility-weighted imaging in patients with multiple sclerosis: a pilot case-control study. *Int Angiol*. 2010;29:158-175.
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 53. Zamboni P, Galeotti R, Menegatti E, Malagoni AM, Tacconi G, Dall'Ara S, Bartolomei I, Salvi F. Chronic cerebrospinal venous insufficiency in patients with multiple sclerosis. *J Neurol Neurosurg Psychiatry*. 2009;80:392-399.
 54. Zamboni P, Menegatti E, Weinstock-Guttman B, Schirda C, Cox JL, Malagoni AM, Hojanacki D, Kennedy C, Carl

- E, Dwyer MG, Bergsland N, Galeotti R, Hussein S, Bartolomei I, Salvi F, Zivadinov R. The severity of chronic cerebrospinal venous insufficiency in patients with multiple sclerosis is related to altered cerebrospinal fluid dynamics. *Funct Neurol.* 2009;24:133-138.
55. Manfredini F, Malagoni AM, Litmanen H, Zhukovskaja L, Jeannier P, Dal Follo D, Felisatti M, Mandini S, Carrabre JE. Blood parameters and biathlon performance. *J Sports Med Phys Fitness.* 2009;49:208-213.
 56. Manfredini F, Malagoni AM, Mandini S, Boari B, Felisatti M, Zamboni P, Manfredini R. Sport therapy for hypertension: why, how, and how much? *Angiology.* 2009;60:207-216.
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