

Alzheimer, Demenz, Parkinson, Hirnatrophie durch Spirochaeten und andere Erreger von Infektionskrankheiten
Alzheimer's disease, dementia, Parkinson's disease, brain atrophy caused by spirochetes and other pathogens of infectious diseases

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<http://alzheimerborreliosis.net/> <http://alzheimerborreliosis.net/presentations/>

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Jucker M (2015) **Alzheimer und Gen-Mutation**
<https://www.youtube.com/watch?v=bVqh5XD5A7k>

Jucker M (2017) **Fokus Demenz.**
<https://www.youtube.com/watch?v=pm2YMa92gJw>

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<http://content.iospress.com/articles/journal-of-alzheimers-disease/jad160152>
https://www.google.de/search?q=Microbes+and+Alzheimer%92s+Disease&hl=de&btnG=Google+Search&gws_rd=ssl
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Boxmeyer L. (2017) **Are the Infectious Roots of Alzheimer's Buried Deep in the Past ?**
J Mol Path Epidemiol. 3, 2 www.rense.com/general96/ALZHEIMERS.pdf

Basis: Genug Schlaf, Bewegung, soziale Interaktion, gesunde Ernährung, menschliche Wärme

Based are: enough sleep, plenty of exercise, social interaction, healthy diet, human warmth

[Reitz](#) Chr, [Tang](#) M-X, [Schupf](#) N et al. (2010) **A Summary Risk Score for the Prediction of Alzheimer Disease in Elderly Persons.** Arch Neurol. 67(7), 835-841.
doi:10.1001/archneurol.2010.136. <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3068839/>
“Risk factors contributing to the risk score were age, sex, education, ethnicity, APOE ε4 genotype, history of diabetes, hypertension or smoking, high-density lipoprotein levels, and waist to hip ratio. The resulting risk score predicted dementia well”.

[Bredesen DE \(2014\) Reversal of cognitive decline: a novel therapeutic program. Aging \(Albany NY\). 6\(9\), 707-17. <http://www.ncbi.nlm.nih.gov/pubmed/25324467>
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Visual signs and symptoms in patients with the visual variant of Alzheimer disease.

https://www.google.de/search?q=visual+signs+and+symptoms+in+patients&hl=de&btnG=Google+Search&gws_rd=ssl

(2006) Borrelieninfektion, Therapieversager, Halbwertszeit v. Immunglobulinen und DNA.

Borrelia infection, treatment failures, half-life of Immunoglobulins and DNA

<http://www.erlebnishaft.de/dauerheilung.pdf>

<http://www.dieterhassler.de/fileadmin/PDF/CTJ806.pdf>

„Die maximale Latenzzeit bis zum Auftreten von Krankheitssymptomen betrug acht Jahre.... Daher kann heute als geklärt gelten, dass die Lyme-Borreliose eine primär chronisch verlaufende Infektionskrankheit ist, bei der es in Analogie zur Syphilis keine Spontanheilung gibt. Die These eines „Durchseuchungstiter“ im Sinne einer durchgemachten, spontan überstandenen Infektion konnte nie belegt werden und sollte heute obsolet sein“.

“The maximum latency to onset of disease symptoms was eight years. The thesis of a "Durchseuchungstiter" in the sense of had taken place spontaneously recovering from infection could never be substantiated and should now be obsolete”.

Diagnostic - Therapy - Booklet on Borrelia and Co - Infections for Clinicians and Practitioners.

Literatur dokumentierte Wirts-Eigenschaften und Infekt - Ursachen bei der Alzheimer Krankheit, Demenz, Parkinson, Hirnatrophie (Prione s.o. zusätzlich)

Literary - documented characteristics of the host and infection causes in Alzheimer's disease, dementia, parkinson's, brain atrophy (prions see above as well)

Immunosystem

Abramov E (2009), McDonald (2015), Girolamo F (2017), Bredesen DE (2017)

[Mice lacking functional B and T cells](#): Späni C (2015)

[Transgenic Mice](#): Jucker M (2015, 2017)

Neuroglia

Soreq L et al. (2017) **Major shifts in glial regional identity are a transcriptional hallmark of human brain aging.** Cell Reports. 18(2), p557–570, DOI: 10.1016/j.celrep.2016.12.011

[http://www.cell.com/cell-reports/abstract/S2211-1247\(16\)31684-9](http://www.cell.com/cell-reports/abstract/S2211-1247(16)31684-9)

[http://www.cell.com/cell-reports/pdf/S2211-1247\(16\)31684-9.pdf](http://www.cell.com/cell-reports/pdf/S2211-1247(16)31684-9.pdf)

Viruses

[Virus triggers chronic illnesses and chronic infections, health, and the so called autoimmune diseases](#)

[Immunsuppressive Virusarten, Bakterien und Protozoen](#)

[Virus, Bakterium und Immunsystem](#)

Herpes simplex virus Type 1 (HSV1)

Wisniewsky HM (1978) Saldanha J (1986, 2012) Jamieson GA (1991) Stanley LC (1994) Beffert U (1998) Itzhaki RF (1997, 2008, 2014) Hemling N (2003) Wozniak MA (2007, 2009, 2011) Zambrano A (2008), Letenneur L (2008) De Chiara G (2010) Cheng SB (2011), Lerchundi R (2011) Bearer EL (2013), Carter CJ (2013), Ball MJ (2013) [Lövheim H](#) (2014), [Mancuso R](#) (2014), Martin C0 (2014)

Bourgade K (2015, 2016), Civitelli L (2015), Gillet L (2015), Piacentini R (2015), Lövheim H (2 x 2015), [Harris SA](#) (2015)

HIV Virus

Esiri MM (1998) Smith DB (2014)

Bacteria and misfolded proteins

[Borrelie Behandlung mit Antibiotika bei Menschen Lyme disease treatment with antibiotics in humans](#)

Borrelia, oral treponemata

MacDonald AB (1986, 1987, 1988, 4 x 2006, 2007, 2008, 2016), Pappolla MA (1989), Miklossy J (1990, 1993, 1994, 1998, 2004, 3 x 2006, 3 x 2008, 2011, 2012, 2013, 2014, 2015, 2016), Riviere GR (1991), Waniek C (1995) Riviere GR (2002) Green DA (2005) Meer-Scherrer L (2006) Blanc F (2014), Maheshwari P (2014), Blanc F (2014), Allen HB (2016), Zahn (2016), Ide (2016), Bastian (2017)

[Chlamydia, Chlamydophila, CPN](#)

Chlamydia pneumoniae

Balin BJ (1998, 2008) Little CS (2004) Boelen E (2007) Maheshwari P, (2014, 2015)

Proprietary bacterium acnes

Kornhuber HH (1996)

Helicobacter pylori

Kountouras J (2006)

Mycoses, fungi

Pisa D (2013, 2015, 2017) Alonso R (2 x 2014, 2017), AlzForum (2015)

Air pollution, Nanoparticles

Kirschvink JL (1992) Pankhurst Q (2008) Moulton PV (2012) Teller S (2015) Chau-Ren Jung (2015)

Toxins

Portelius E (2016), Killin LOJ (2016), Mahler B (2016), Mirza A (2017), Klotz (2017)

Leitlinie Demenz, guideline dementia

<http://www.dgn.org/leitlinien/3176-leitlinie-diagnose-und-therapie-von-demenzen-2016>

Kratz T (2017) **Diagnostik und Therapie von Verhaltensstörungen bei Demenz**. Deutsches Ärzteblatt 114(26), 447-454

<https://www.aerzteblatt.de/archiv/191886/Diagnostik-und-Therapie-von-Verhaltensstoerungen-bei-Demenz>

Possibilities for early detection

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Mason, E et al. (2017) **Family History of Alzheimer's Disease is Associated with Impaired Perceptual Discrimination of Novel Objects**. [Journal of Alzheimer's Disease](#), 57(3), 735-745 DOI: 10.3233/JAD-160772 <http://content.iospress.com/articles/journal-of-alzheimers-disease/jad160772>

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Bannwarth, A. (1944) **Zur Klinik und Pathogenese der chronischen lymphocytären Meningitis.** Arch. Psychiatr.Nervenkr. 117, 161-185.

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Braak H, Braak E (1991) Neuropathological staging of Alzheimer-related changes. Acta Neuropathol (Berl) 82, 239–259.

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America, 89 (16). pp. 7683-7687. ISSN 0027-8424. <http://resolver.caltech.edu/CaltechAUTHORS:20130211-134215131> <http://web.gps.caltech.edu/~jkirschvink/pdfs/PNASbrainMagnetite.pdf>

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« *Spirochetes evade host defenses, locate intracellularly, form more resistant atypical forms and notably biofilms, which contribute to sustain chronic infection and inflammation and explain the slowly progressive course of dementia in AD. To consider co-infecting microorganisms is equally important, as multi-species biofilms result in a higher resistance to treatments and a more severe dementia.* »

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[Purandare N](#), [Burns A](#), [Kevin J Daly](#) KJ et al. (2016) **Cerebral emboli as a potential cause of Alzheimer's disease and vascular dementia: case-control study.** *BMJ*. 332(7550), 1119–1124. doi: [10.1136/bmj.38814.696493.AE](https://doi.org/10.1136/bmj.38814.696493.AE) PMID: PMC1459546
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1459546/>
« Spontaneous cerebral emboli were significantly associated with both Alzheimer's disease and vascular dementia. They may represent a potentially preventable or treatable cause of dementia. »

Bredesen DE, Amos EC, Canick J, Ackerley M, Raji C, Fiala M, Ahdidan J (2016) **Reversal of cognitive decline in Alzheimer's disease.** *Aging (Albany NY)* 8, 1250-1258.
<https://www.ncbi.nlm.nih.gov/pubmed/27294343>
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Livingston G et al. (2017) **Dementia prevention, intervention, and care.** *Lancet*. doi: [10.1016/S0140-6736\(17\)31363-6](https://doi.org/10.1016/S0140-6736(17)31363-6).

[Mirza A](#), [King A](#), [Troakes C](#), [Exley C](#) (2017) **Aluminium in brain tissue in familial Alzheimer's disease.** *Journal of Trace Elements in Medicine and Biology* 40, 30–36
« The unique quantitative data and the stunning images of aluminium in familial Alzheimer's disease brain tissue raise the spectre of aluminium's role in this devastating disease. »

Miklossy J (2017) **Handbook of Infection and Alzheimer's Disease** ISBN print 978-1-61499-705-4 ISBN online 978-1-61499-706-1 [Share](#)
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Onyango IG et al. (2017) **Mitochondria in the pathophysiology of Alzheimer's and Parkinson's diseases.** *Front Biosci (Landmark Ed)*. 22, 854-872.

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[Alonso R](#), [Pisa D](#), [Aguado B](#), [Carrasco L](#) (2017) **Identification of Fungal Species in Brain Tissue from Alzheimer's Disease by Next-Generation Sequencing.** *J Alzheimers Dis*. doi: 10.3233/JAD-170058. [Epub ahead of print] <https://www.ncbi.nlm.nih.gov/pubmed/28387676>
„Five genera were common to all nine patients: *Alternaria*, *Botrytis*, *Candida*, *Cladosporium*, and *Malassezia*. These observations could be used to guide targeted antifungal therapy for AD patients. Moreover, the differences found between the fungal species in each patient may constitute a basis to understand the evolution and severity of clinical symptoms in AD“.

Maheshwari P, Eslick GD (2017) **Bacterial infection increases the risk of Alzheimer's disease: An evidence-based assessment.** In *Handbook of Infection and Alzheimer's Disease*, Miklossy J, ed. IOS Press, Amsterdam, in press.

Barron AE, Itzhaki R, Miklossy J (2017) **ROLE OF MICROBES IN THE DEVELOPMENT OF ALZHEIMER'S DISEASE: STATE OF THE ART.**

« Chair: AE Barron, R Itzhaki, Discussant:... - Innovation in ..., 2017 - academic.oup.com Abstract Alzheimer disease (AD) is one of the most devastating diseases and aging is one of the most important risk factors. For many years huge efforts have been made to better understand the etiopathogenesis of AD. Also, many treatment trials have been performed. At present, we do not know what is the exact cause of AD nor how to treat it but we know that neuroinflammation plays an important role, the latter occurring even some 20 years before ...» [Zitieren](#) [Speichern](#)

[Cascella M](#), [Bimonte S](#), [Muzio MR](#), [Schiavone V](#), [Cuomo A](#) (2017) **The efficacy of Epigallocatechin-3-gallate (green tea) in the treatment of Alzheimer's disease: an overview of pre-clinical studies and translational perspectives in clinical practice.**

[Infect Agent Cancer](#). 12, 36. doi: 10.1186/s13027-017-0145-6. eCollection 2017. <https://www.researchgate.net/publication/317698412> <https://www.ncbi.nlm.nih.gov/pubmed/28642806>

„The purpose of this review is to summarize the in vitro and in vivo pre-clinical studies on the use of EGCG in the prevention and the treatment of AD as well as to offer new insights for translational perspectives into clinical practice.“

https://www.ncbi.nlm.nih.gov/pubmed/?linkname=pubmed_pubmed&from_uid=28642806

[Pisa D](#), [Alonso R](#), [Fernández-Fernández AM](#) et al. (2017) **Polymicrobial Infections In Brain Tissue From Alzheimer's Disease Patients.**

[Sci Rep](#). 7(1), 5559. doi: 10.1038/s41598-017-05903-y. <https://www.ncbi.nlm.nih.gov/pubmed/28717130>

«Finally, several structures that could belong to fungi or prokaryotes were detected using peptidoglycan and Clostridium antibodies, and PCR analysis revealed the presence of several bacteria in frozen brain tissue from AD patients. Thus, our results show that polymicrobial infections consisting of fungi and bacteria can be revealed in brain tissue from AD patients. «

[Girolamo F](#), [Coppola C](#), [Ribatti D](#) (2017) **Immunoregulatory effect of mast cells influenced by microbes in neurodegenerative diseases.**

[Brain Behav Immun](#). 65, 68-89. doi: 10.1016/j.bbi.2017.06.017. Epub 2017 Jul 1.

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Adams JU (2017) **Do Microbes Trigger Alzheimer's Disease?** The once fringe idea is gaining traction among the scientific community.

<http://mobile.the-scientist.com/article/50208/do-microbes-trigger-alzheimer-s-disease>

[Carter, Chris J](#) (2017) **Genetic, Transcriptome, Proteomic, and Epidemiological Evidence for Blood-Brain Barrier Disruption and Polymicrobial Brain Invasion as Determinant Factors in Alzheimer's Disease.** DOI: 10.3233/ADR-170017 [Journal of Alzheimer's Disease Reports](#), 1(1) 125-157 <http://content.iospress.com/articles/journal-of-alzheimers-disease-reports/adr170017>

«AD serum amyloid- β autoantibodies may attenuate its antimicrobial effects favoring microbial survival and cerebral invasion leading to activation of neurodestructive immune/inflammatory processes, which may also be augmented by age-related immunosenescence. AD may thus respond to antibiotic, antifungal, or antiviral therapy. «

Klotz K, Weistenhöfer W, Neff F, Hartwig A, van Thriel C, Drexler H (2017) **The health effects of aluminum exposure.** [Arztebl Int](#) 114, 653–9. DOI: 10.3238/arztebl.2017.0653 <https://www.aerzteblatt.de/archiv/193510/Gesundheitliche-Auswirkungen-einer-Aluminiumexposition> www.aerzteblatt-international.de

Groveman BR, Orrù ChrD, Hughson AG et al (2018) **Rapid and ultra-sensitive quantitation of disease-associated α -synuclein seeds in brain and cerebrospinal fluid by α Syn RT-QuIC.** [Acta Neuropathologica Communications Neuroscience of Disease](#) 20186:7 <https://doi.org/10.1186/s40478-018-0508-2>

<https://actaneurocomms.biomedcentral.com/articles/10.1186/s40478-018-0508-2>

«The test was 93 percent accurate at diagnosing Parkinson's and Lewy body dementia, correctly excluded all of the control samples, and turned up test results in two days.»

Nian-Sheng Tzeng, Chi-Hsiang Chung, Fu-Huang Lin et al. (2018) **Anti-herpetic Medications and Reduced Risk of Dementia in Patients with Herpes Simplex Virus Infections—a Nationwide, Population-Based Cohort Study in Taiwan.** [Neurotherapeutics](#)

pp 1–13 | Cite as DOI <https://doi.org/10.1007/s13311-018-0611-x>

<https://link.springer.com/article/10.1007/s13311-018-0611-x#citeas>

„The usage of anti-herpetic medications in the treatment of HSV infections was associated with a decreased risk of dementia. These findings could be a signal to clinicians caring for patients with HSV infections. »

[Calderón-Garcidueñas L](#), [González-Maciel A](#), [RafaelReynoso-Robles, R](#), et al. (2018) **Hallmarks of Alzheimer disease are evolving relentlessly in Metropolitan Mexico City infants, children and young adults. APOE4 carriers have higher suicide risk and higher odds of reaching NFT stage V at ≤40 years of age.**

<https://doi.org/10.1016/j.envres.2018.03.023>

<https://www.sciencedirect.com/science/article/pii/S0013935118301439?via%3Dihub>

„We recommend the concept of preclinical AD be revised and emphasize the need to define paediatric environmental, nutritional, metabolic and genetic risk factor interactions of paramount importance to prevent AD. AD evolving from childhood is threatening the wellbeing of our children and future generations.“

Nakamura A, Kaneko N, Villemagne VL et al. (2018) [High performance plasma amyloid-β](#)

biomarkers for Alzheimer's disease. „These plasma biomarkers also have cost–benefit and scalability advantages over current techniques, potentially enabling broader clinical access and efficient population screening. »

Carillo M (2018) **Trends in diagnosing and reducing the risk of Alzheimer's disease.**

DOI10.13140/RG.2.2.27207.60327

https://www.researchgate.net/publication/324485269_Trends_in_diagnosing_and_reducing_the_risk_of_Alzheimer%27s_disease

„A review of two exciting trends in research related to the diagnosis of Alzheimer's are the development of imaging biomarkers that may provide an early and accurate diagnosis, and blood biomarkers that could yield a simple test for the disease. And includes recent findings demonstrating that lifestyle modifications can reduce the risk of developing cognitive symptoms in high-risk older adults.“

Projects [Revisiting the framework of the National Institute on Aging-Alzheimer's Association diagnostic criteria](#)

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- ➔ **Virus triggers** <http://www.erlebnishaft.de/virus triggers.pdf>
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- ➔ **L-Forms, round bodies** <http://www.erlebnishaft.de/stressvar1.pdf>
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- ➔ **Methylzyklus** <http://www.erlebnishaft.de/methylierung.pdf>
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Methylenblau, Rember®

http://scholar.google.de/scholar?q=remember+methylene+blue+alzheimer%27s&hl=de&as_sd t=0&as_vis=1&oi=scholar&sa=X&ei=C1QpU_0fz9eyBoHQgLA&ved=0CDkQgQMwAA

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- ➔ **Prione** <http://www.erlebnishaft.de/prione.pdf>
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„Die Bestimmung charakteristischer „Alzheimer-Peptide“ per Massenspektroskopie aus dem Blutplasma ist ähnlich zuverlässig wie die PET-Bildgebung oder eine Lumbalpunktion.“

Bildgebende Diagnostik, Imaging diagnostics

Prior to any tumor therapy, may be a long term antibiotic treatment should be done. Jeder Tumor-Therapie sollte eventuell doch eine (Langzeit-) Antibiose voraus gehen.
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→ Prione <http://www.erlebnishaft.de/prione.pdf>

Behandle physikalisch (körperliche und geistige Bewegung, ausreichend Schlaf, weniger Stress), probiotisch (Körperpflege, Oralhygiene, Probiotika-Einnahme), bei vitaler Indikation (Entzündungszeichen, Entzündungsmarker) zusätzlich mit Antibiotika, dann aber gezielt, hart und so frühzeitig wie möglich.

Treat physically (exercise, sleep, stress reduction), probiotic and in case of vital indication (signs of chronic inflammation disorder) additionally with antibiotics, but then targeted, hard and as early as possible.

→ http://www.kabilahsystems.de/therap_02_virus.pdf o.a.

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Immuntherapie (Antikörper) gegen Amyloid Proteine im Gehirn.

Immunotherapy (antibodies) against amyloid proteins in the brain:

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[Bernt-Dieter Huismans](#), Letzte Revision April 2018 www.Huismans.click



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