

## **Borrelien Direkt – Nachweis Direct Detection of Borrelia**

**Kultur, -Histologie, -Videomikroskopie, -PCR, -elektromagnetische (EM) Signale  
Culture, Histology, Video Microscopy, PCR, Electromagnetic Signals**

### **Borrelien Original – Bakterien (Phänotypen, frontal pathogens) Borrelia Spirochetal Forms (Phenotypes)**

Huismans BD (2007) Plädoyer für den Erregernachweis bei der chronischen Lyme-Borreliose. Grin Verlag. ISBN 978-3-638-92337-8

<http://www.grin.com/de/e-book/86576/plaedoyer-fuer-den-erregernachweis-bei-der-chronischen-lyme-borreliose>

### **Borrelien Stress – Varianten (Genotypen, stealth pathogens) Borrelia Stress Variants (Genotypes)**

Borrelia Population Dynamics <http://www.erlebnishaft.de/kommentstressvar2.pdf>

Biofilme in Medicine <http://www.erlebnishaft.de/kommentbiofilmmed.pdf>

Biogenic Amines und Peptides <http://www.kabilahsystems.de/biogeneamineundpeptide.pdf>

### **Die erweiterten Koch'schen Postulate. The extended Koch's postulates.**

[http://www.xerlebnishaft.de/expand\\_koch\\_post.pdf](http://www.xerlebnishaft.de/expand_koch_post.pdf)

## **Borrelien Kultur. Borrelia Culture**

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### **Borrelien Videomikroskopie. Borrelia Video Microscopy**

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<http://www.google.de/search?q=A+simple+method+for+the+detection+of+live+Borrelia+spirochaetes+in+human+blood+using+classical+microscopy+techniques.+Biological+and+Biomedical+Reports+3%281%29%2C+15-28&hl=de&btnG=Google+Search>  
“Classic techniques involving phase-contrast and fluorescence microscopy are used. The method is also quite sensitive for detecting other bacteria, protists, fungi and other organisms present in blood samples. It is also useful for monitoring the effects of various antibiotics during treatment. We also present a simple hypothesis for explaining the confusion generated through the interpretation of possible stages of *Borrelia* seen in human blood. We hypothesize that these various stages in the blood stream are derived from secondarily infected tissues and biofilms in the body with low oxygen concentrations. Motile stages transform rapidly into cysts or sometimes penetrate other blood cells including red blood cells (RBCs). The latter are ideal hiding places for less motile stages that take advantage of the host’s RBCs blebbing-system. Less motile, morphologically different stages may be passively ejected in the blood plasma from

the blebbing RBCs, more or less coated with the host's membrane proteins which prevents detection by immunological methods”.

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[http://www.terkko.helsinki.fi/article/11386478\\_an-optimized-sybr-green-ipi-assay-for-rapid-viability-assessment-and-antibiotic-susceptibility-testing-for-borrelia-burgdorferi](http://www.terkko.helsinki.fi/article/11386478_an-optimized-sybr-green-ipi-assay-for-rapid-viability-assessment-and-antibiotic-susceptibility-testing-for-borrelia-burgdorferi)

„A test has been developed by researchers which they say will allow them to test thousands of FDA-approved drugs to see if they will work against the bacteria that causes tick-borne Lyme disease“.

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## PCR-Verfahren. PCR Methods

### ***Borrelia burgdorferi sensu lato* strains**

<http://www.pasteur.fr/recherche/borrelia/Borreliaspecies.html>

<http://www.reocities.com/HotSprings/Oasis/6455/bb-strains.txt>

NCBI Taxonomy *Borrelia* <http://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=138>

- ➔ **Immunity** [http://www.erlebnishaft.de/danger\\_model.pdf](http://www.erlebnishaft.de/danger_model.pdf)
- ➔ **Bakterielle Stress-Varianten** <http://www.erlebnishaft.de/stressvar1.pdf>
- ➔ **Borrelien Populations-Dynamik** <http://www.erlebnishaft.de/stressvar2.pdf>
- ➔ **Erweiterung der Henle-Koch'schen Postulate (2013)**  
[http://www.xerlebnishaft.de/expand\\_koch\\_post.pdf](http://www.xerlebnishaft.de/expand_koch_post.pdf)



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**“Antibiotic treatment reduced the amount of detectable spirochete DNA in skin tissue by a factor of 1,000 or more.”**

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**“Perhaps most surprising, researchers found the genetic footprint of bacteria known as *Borrelia burgdorferi* in his DNA — making the Iceman the earliest known human infected by the bug that causes Lyme disease”.**

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**“The current paper wants to summarize the available PCR/NAT assays for the detection of *B. burgdorferi* DNA in clinical specimens, with special attention to neurologic disorders, and to discuss the difficulties in PCR analysis and result interpretation, associated thereof”.**

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**Borrelia MLST Databases (2015)** <http://pubmlst.org/borrelia/>  
<http://pubmlst.org/>

Venczel R, Knocke L, Pavlic M et al (2015) **A novel duplex real-time PCR permits simultaneous detection and differentiation of *Borrelia miyamotoi* and *Borrelia burgdorferi sensu lato***. ARTICLE in *INFECTION* · JULY 2015 See discussions, stats, and author profiles for this publication at: <http://www.researchgate.net/publication/280059012>

➔ **IRIDICA** <http://iridica.abbott.com/iridica.html>

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## SONSTIGES, OTHERS

**EM-Signale. Electromagnetic Signals** (ist umstritten für therapeutische Anwendungen, still controversial for considerations in therapy)

[Del Giudice E](#), [Preparata G](#), [Vitiello G](#) (1988) Water as a Free Electric Dipole Laser. Phys. Rev. Lett. 61, 1085–1088 [http://prl.aps.org/abstract/PRL/v61/i9/p1085\\_1](http://prl.aps.org/abstract/PRL/v61/i9/p1085_1)  
“**We show that the usually neglected interaction between the electric dipole of the water molecule and the quantized electromagnetic radiation field can be treated in the context of a recent quantum field theoretical formulation of collective dynamics. We find the emergence of collective modes and the appearance of permanent electric polarization around any electrically polarized impurity.**”

Hoffmann R, Torrence V. (1993) Chemistry Imagined. Reflexions on Science. SMITHSONIAN INSTITUTION PRESS, WASHINGTON, DC, ISBN 10: [1560982144](#) / ISBN 13: [9781560982142](#) S. 144  
<http://www.abebooks.de/CHEMISTRY-IMAGINED-REFLECTIONS-SCIENCE-HARDBACK-HOFFMANN/9032790507/bd>

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“... it is not impossible to imagine that such marvelously ordered structure may retain and release electromagnetic information that it has required in some way or other. ... the coherence domains of water...”  
[http://books.google.de/books/about/QED\\_Coherence\\_in\\_Matter.html?id=u-MvobTFGLEC&redir\\_esc=y](http://books.google.de/books/about/QED_Coherence_in_Matter.html?id=u-MvobTFGLEC&redir_esc=y)

Benveniste J, Jurgens P, Hsueh W & Aissa J (1997) Transatlantic Transfer of Digitized Antigen Signal by Telephone Link, Journal of Allergy and Clinical Immunology - Program and abstracts of papers to be presented during scientific sessions AAAAI/AAI.CIS Joint Meeting February 21-26 **Comment on Jaques Benveniste.** [http://www.cukwiki.com/wiki/Jacques\\_Benveniste](http://www.cukwiki.com/wiki/Jacques_Benveniste)

[Müller-Oerlinghausen B](#), [Lasek R](#), [Haustein KO](#), [Höffler D](#) (1998) Arzneimittelkommission der deutschen Ärzteschaft: **Außerhalb der wissenschaftlichen Medizin stehende Methoden der Arzneitherapie.** Dtsch Arztebl 95(14), A-800 / B-680 / C-648  
<http://www.bundesaerztekammer.de/downloads/Alternativpdf.pdf>  
<http://www.aerzteblatt.de/archiv/literatur/10368>

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[Montagnier L, Aïssa J, Ferris S, Montagnier JL, Lavallée C.](#) (2009) Electromagnetic signals are produced by aqueous nanostructures derived from bacterial DNA sequences. [Interdiscip Sci.](#) 1(2), 81-90. doi: 10.1007/s12539-009-0036-7. Epub 2009 Mar 4. [Article](#)  
<http://de.scribd.com/doc/20711589/Electromagnetic-Signals-Are-Produced-by-Aqueous-Nano-Structures-Derived-From-Bacterial-DNA-Sequences-Luc-Montagnier>  
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