

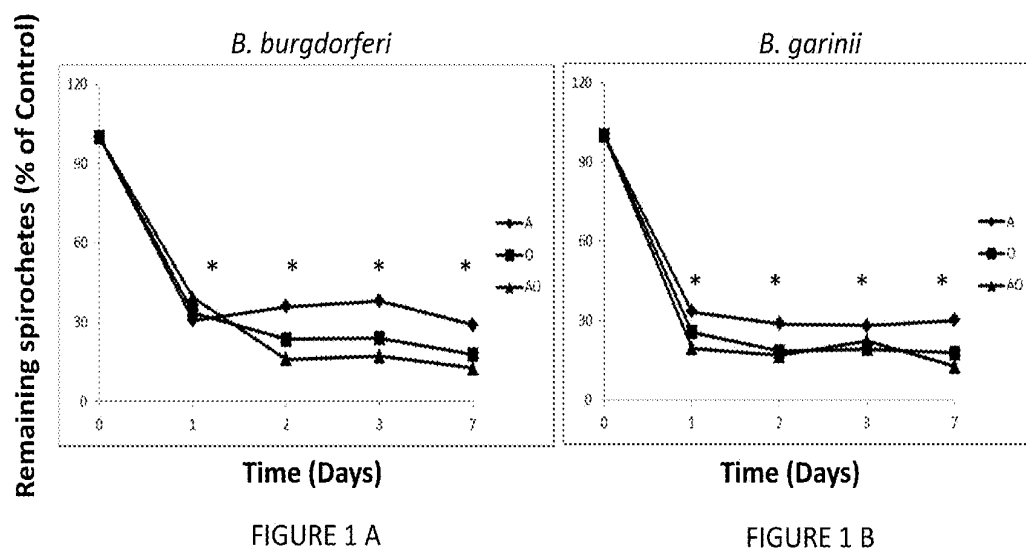


US 20160106777A1

(19) **United States**(12) **Patent Application Publication****Rath et al.**(10) **Pub. No.: US 2016/0106777 A1**(43) **Pub. Date: Apr. 21, 2016**(54) **NOVEL COMPOSITION METHOD OF USING
THE SAME FOR THE TREATMENT OF LYME
DISEASE**(71) Applicants: **Matthias W. Rath**, Aptos, CA (US);
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Aleksandra Niedzwiecki, APTOS, CA
(US); **Anna Goc**, San Jose, CA (US)(73) Assignee: **MATTHIAS W. RATH**, Aptos, CA
(US)(21) Appl. No.: **14/517,887**(22) Filed: **Oct. 19, 2014****Publication Classification**(51) **Int. Cl.****A61K 33/18** (2006.01)
A61K 31/201 (2006.01)
A61K 31/23 (2006.01)
A61K 31/353 (2006.01)
A61K 31/216 (2006.01)**A61K 31/375** (2006.01)
A61K 31/51 (2006.01)
A61K 31/525 (2006.01)
A61K 31/455 (2006.01)
A61K 31/191 (2006.01)
A61K 31/4415 (2006.01)
A61K 31/4188 (2006.01)
A61K 31/519 (2006.01)
A61K 31/714 (2006.01)
A61K 31/593 (2006.01)(52) **U.S. Cl.**CPC **A61K 33/18** (2013.01); **A61K 31/593**
(2013.01); **A61K 31/201** (2013.01); **A61K**
31/23 (2013.01); **A61K 31/353** (2013.01);
A61K 31/216 (2013.01); **A61K 31/375**
(2013.01); **A61K 31/51** (2013.01); **A61K**
31/525 (2013.01); **A61K 31/455** (2013.01);
A61K 31/191 (2013.01); **A61K 31/4415**
(2013.01); **A61K 31/4188** (2013.01); **A61K**
31/519 (2013.01); **A61K 31/714** (2013.01)

(57)

ABSTRACTA composition for treating Lyme disease caused by *Borrelia*
Species, comprising a vitamin, a small fatty acid signaling
molecule, an essential amino acid, a flavonoid, a plant extract
and a mineral.



Remaining spirochetes (% of Control)

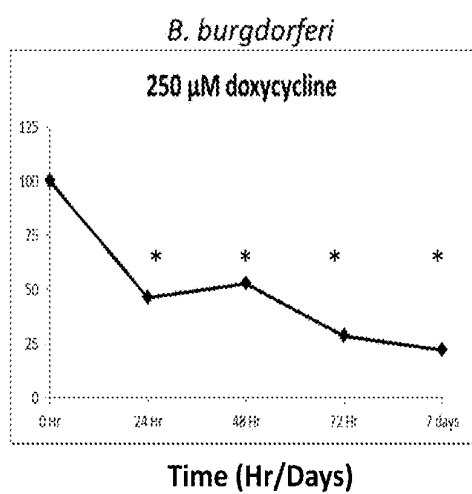


FIGURE 2 A

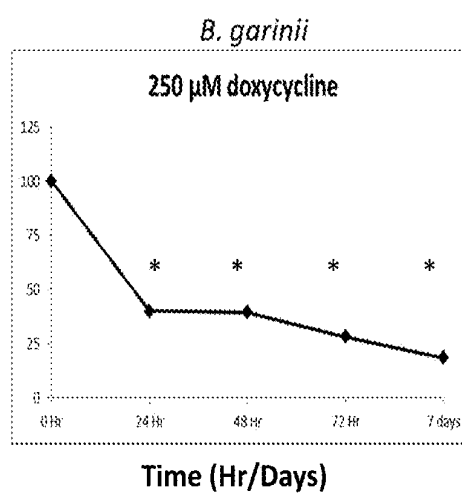


FIGURE 2 B

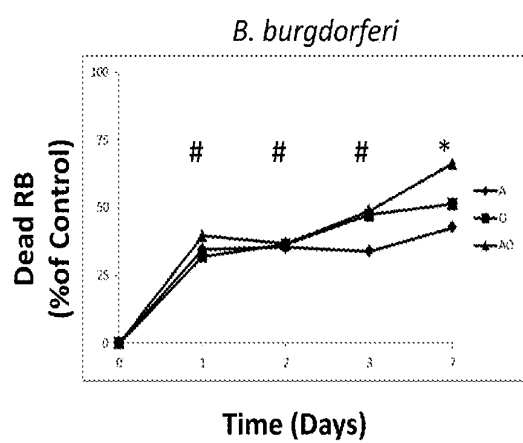


FIGURE 3A

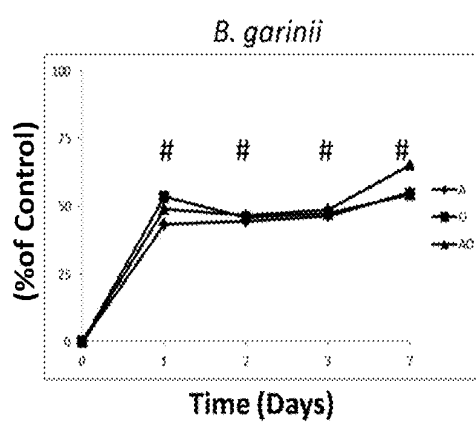


FIGURE 3B

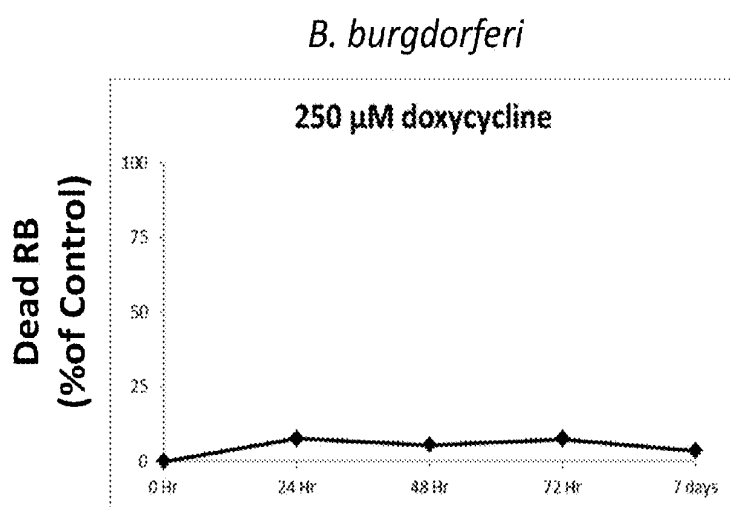


FIGURE 4A

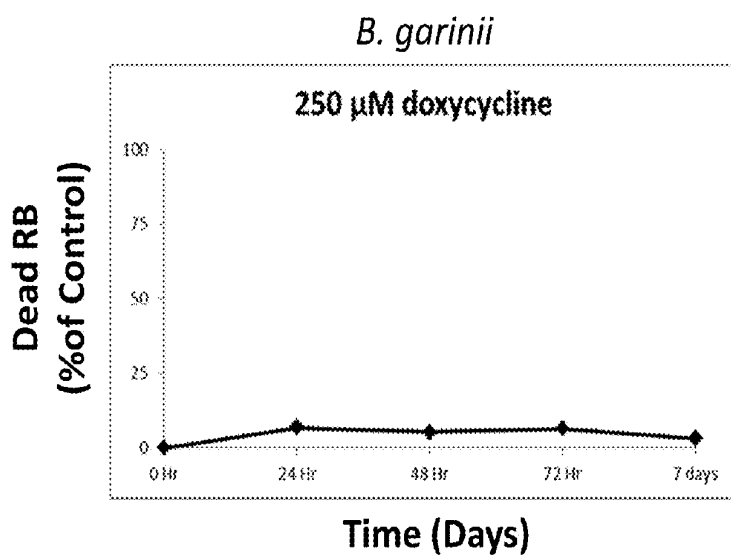
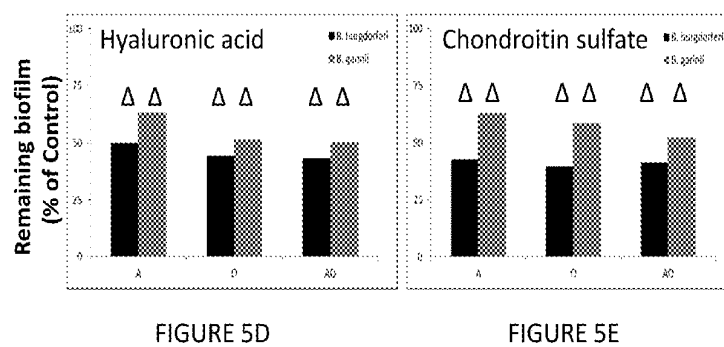
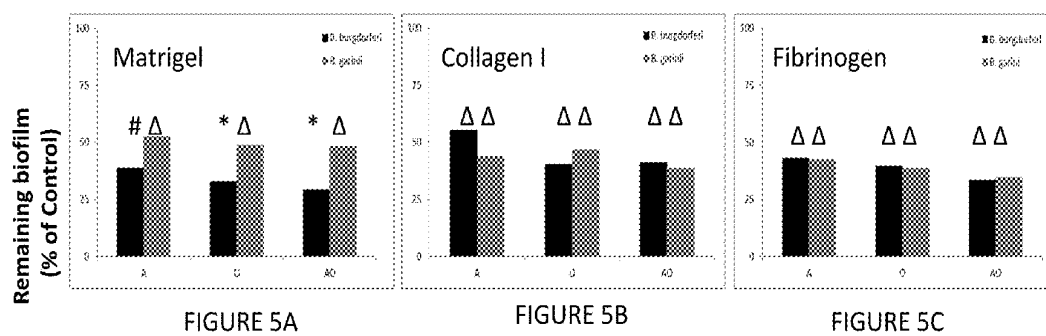


FIGURE 4B



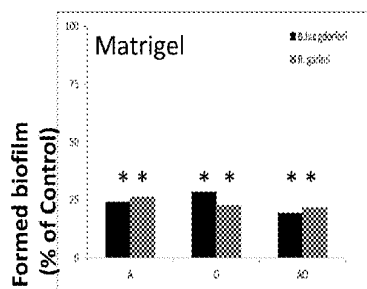


FIGURE 6A

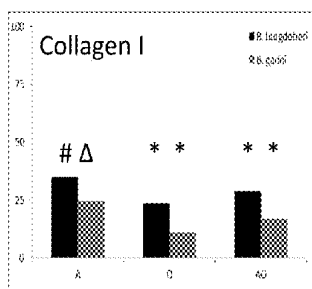


FIGURE 6B

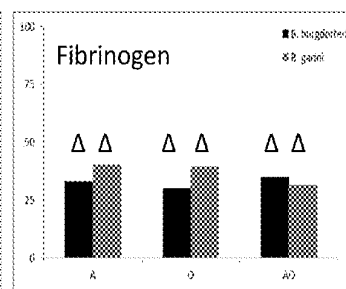


FIGURE 6C

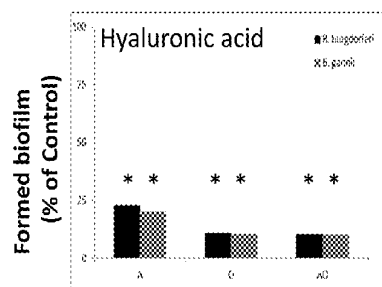


FIGURE 6D

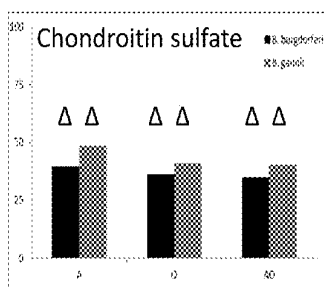


FIGURE 6E

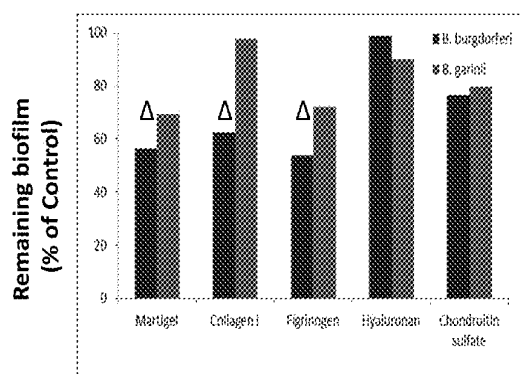


FIGURE 7A

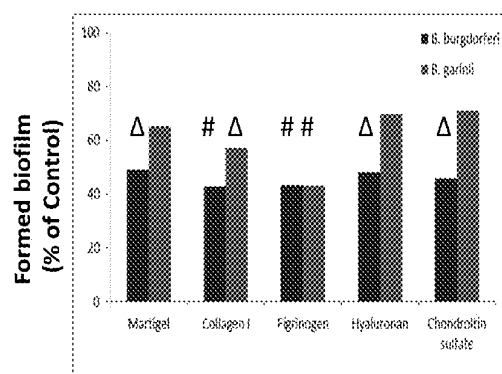
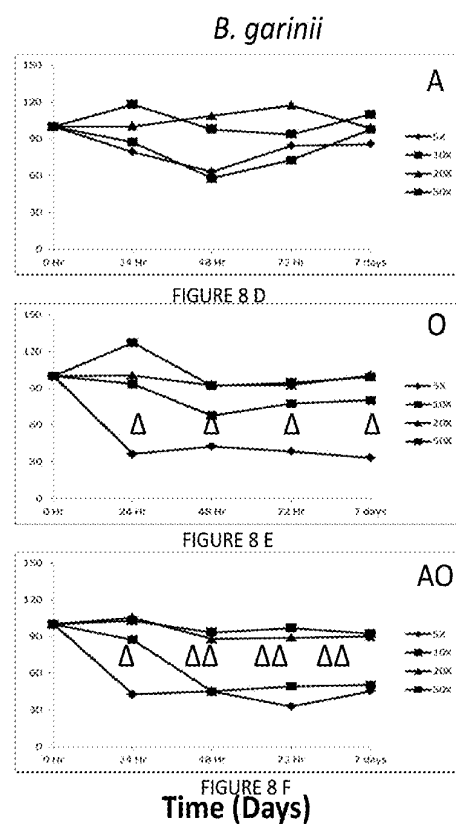
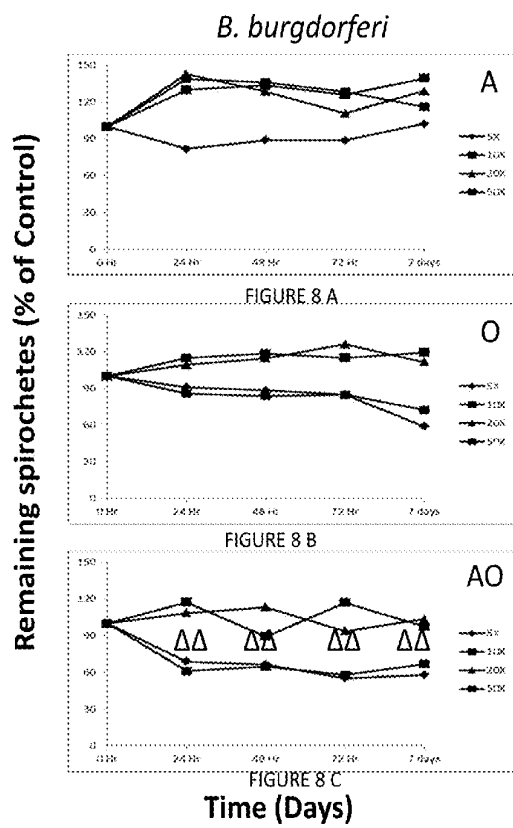


FIGURE 7B



B. burgdorferi

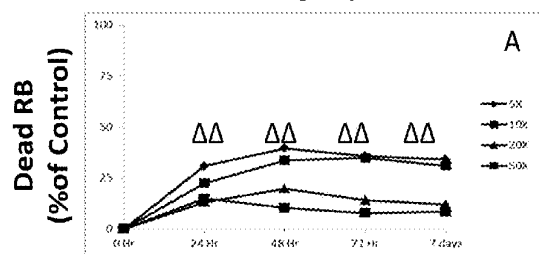


FIGURE 9A

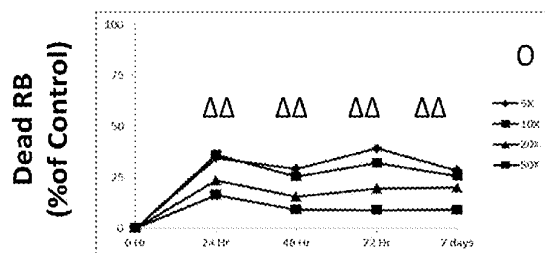
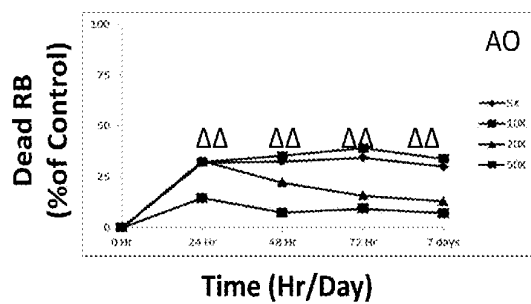


FIGURE 9B

FIGURE 9C



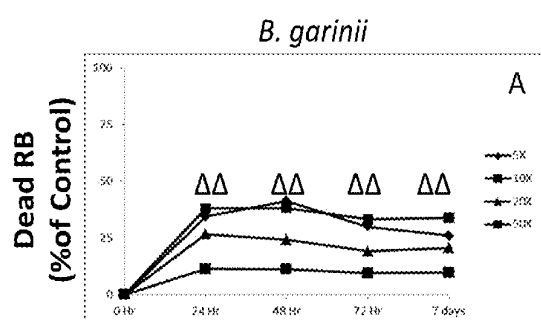


FIGURE 10 A

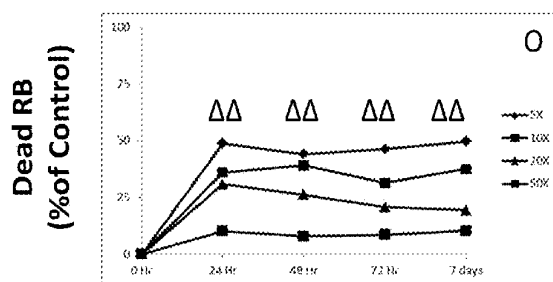
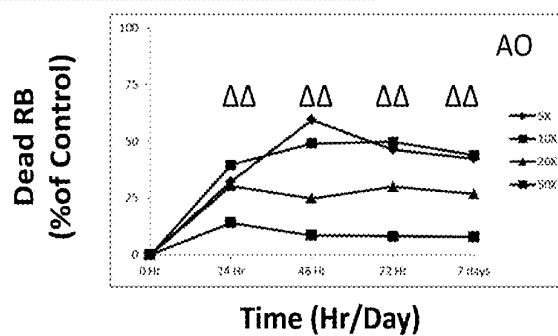
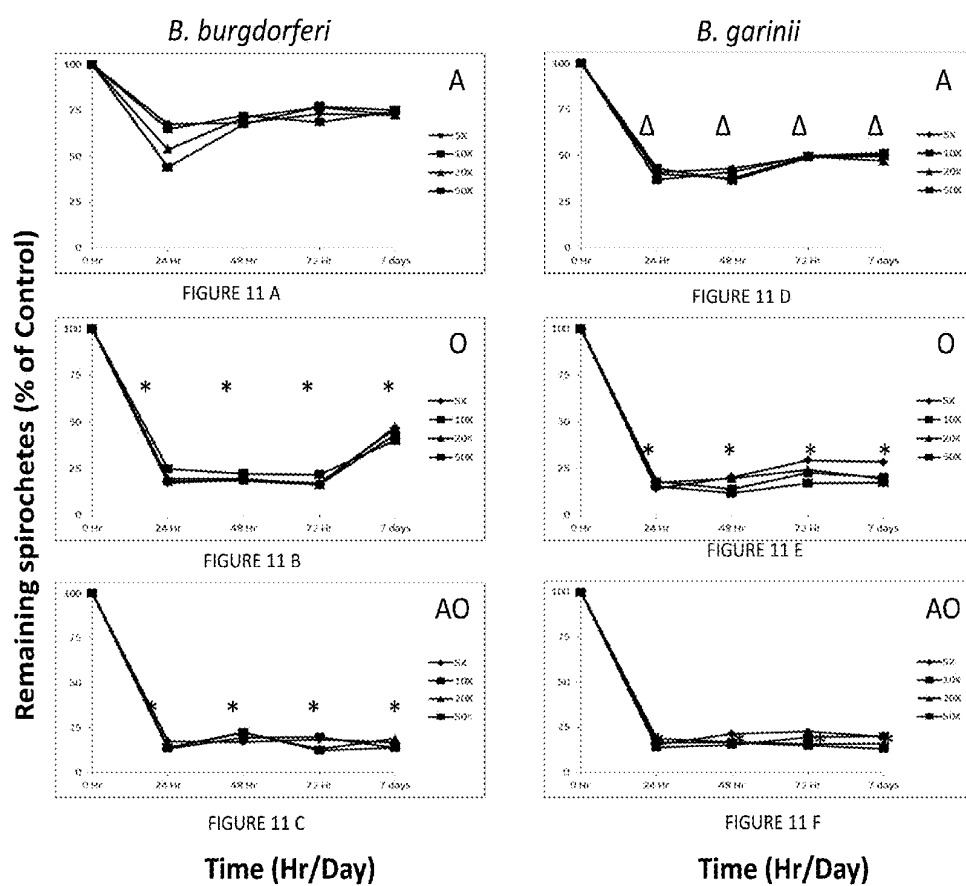


FIGURE 10 B

FIGURE 10 C





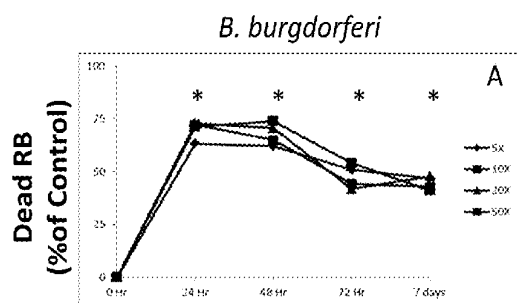


FIGURE 12 A

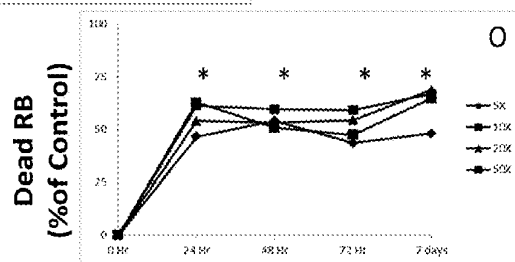


FIGURE 12 B

FIGURE 12 C

