

USING LIPID BILAYERS IN AN ARTIFICIAL AXON SYSTEM

Zachary Thomas VanDerwerker

Thesis submitted to the faculty of the Virginia Polytechnic Institute and State University in
partial fulfillment of the requirements for the degree of

Master of Science
In
Mechanical Engineering

Mary E. Kasarda, Co-Chair
Donald J. Leo, Co-Chair
Stephen A. Sarles

September 23, 2013
Blacksburg, Virginia

Keywords: Lipid bilayer, droplet interface bilayer, droplet on hydrogel bilayer (DHB),
alamethicin, artificial axon system

Permission to use Figure 2-6

Hey Zach,

Yep thats cool, sorry it took me so long to respond, I was without email access all weekend. When is your defense?

Taylor Tront Young
Energetics Engineer
Indian Head Naval Surface Warfare Center
Fuze and Initiation Systems Branch
phone: 203-539-1755

On Fri, Sep 6, 2013 at 2:38 PM, Zach VanDerwerker <zvandy@vt.edu> wrote:

Taylor,

Would you mind if I used one of the plots (see attached) from your thesis in my thesis? I would cite you of course.

-Zach VanDerwerker

Permission to use Figure B-2

Zach,

You definitely have my permission. I appreciate you asking, even though you didn't have to.

We miss you in the lab pass by a say Hi whenever you're in town.

Regards,

On Nov 11, 2013 9:21 AM, "Zach VanDerwerker" <zvandy@vt.edu> wrote:

Joseph,

I need to document that you gave me permission to use the photos (see attached) you took of my substrate molds. Do I have your permission to use them in my thesis?

-Zach

Virginia Tech ETD Fair Use Analysis Results

This is not a replacement for professional legal advice but an effort to assist you in making a sound decision.

Name: Zachary VanDerwerker

Description of item under review for fair use: Axon Instruments, I., Axopatch 200B Patch Clamp: Theory and Operation. 1999.

Report generated on: 11-11-2013 at : 09:40:05

Based on the information you provided:

Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: **in favor of fair use**

Factor 2

Your consideration of the nature of the copyrighted work you used weighs: **in favor of fair use**

Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: **in favor of fair use**

Factor 4

Your consideration of the effect or potential effect on the market after your use of the copyrighted work weighs: **in favor of fair use**

Based on the information you provided, your use of the copyrighted work weighs: **in favor of fair use**