To: Merus N.V. (jlclark@woodphillips.com)

Subject: U.S. TRADEMARK APPLICATION NO. 79225691 - DOCK & BLOCK - 11137T00050U - Request for

Reconsideration Denied - Return to TTAB

Sent: 4/16/2019 4:49:32 PM

Sent As: ECOM113@USPTO.GOV

Attachments: Attachment - 1

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UNITED STATES PATENT AND TRADEMARK OFFICE (USPTO) OFFICE ACTION (OFFICIAL LETTER) ABOUT APPLICANT'S TRADEMARK APPLICATION

U.S. APPLICATION SERIAL NO. 79225691

MARK: DOCK & *79225691*

BLOCK

CORRESPONDENT

ADDRESS: GENERAL TRADEMARK JEFFREY L CLARK INFORMATION:

WOOD PHILLIPS http://www.uspto.gov/trademarks/index.jsp

KATZ CLARK & MORTIMER

500 W MADISON <u>VIEW YOUR APPLICATION FILE</u>

STREET SUITE 1130 CHICAGO, IL 60661

APPLICANT: Merus

N.V.

CORRESPONDENT'S REFERENCE/DOCKET

NO:

11137T00050U

CORRESPONDENT E-MAIL ADDRESS:

jlclark@woodphillips.com

REQUEST FOR RECONSIDERATION DENIED

ISSUE/MAILING DATE: 4/16/2019

INTERNATIONAL REGISTRATION NO. 1386289

The trademark examining attorney has carefully reviewed applicant's request for reconsideration and is denying the request for the reason stated below. See 37 C.F.R. §2.63(b)(3); TMEP §§715.03(a)(ii)(B), 715.04(a). The following refusal made final in the Office action dated October 2, 2018, is maintained and continues to be final: SECTION 2(e)(1) PARTIAL REFUSAL. See TMEP §§715.03(a)(ii)(B), 715.04(a). The following requirement made final in the Office action is satisfied: INDEFINITE IDENTIFICATION OF GOODS. See TMEP §§715.03(a)(ii)(B), 715.04(a).

In the present case, applicant's request has not resolved all the outstanding issues, nor does it raise a new issue or provide any new or compelling evidence with regard to the outstanding issue in the final Office action. In addition, applicant's analysis and arguments are not persuasive nor do they shed new light on the issues. Accordingly, the request is denied.

If applicant has already filed a timely notice of appeal with the Trademark Trial and Appeal Board, the Board will be notified to resume the appeal. *See* TMEP §715.04(a).

If no appeal has been filed and time remains in the six-month response period to the final Office action, applicant has the remainder of the response period to (1) comply with and/or overcome any outstanding final requirement(s) and/or refusal(s), and/or (2) file a notice of appeal to the Board. TMEP §715.03(a)(ii)(B); see 37 C.F.R. §2.63(b)(1)-(3). The filing of a request for reconsideration does not stay or extend the time for filing an appeal. 37 C.F.R. §2.63(b)(3); see TMEP §§715.03, 715.03(a)(ii)(B), (c).

Jesse Nelman /JesseNelman/ Examining Attorney Law Office 113 (571) 272-0191 jesse.nelman@uspto.gov

http://cancerdiscovery.aacriournals.org/content/8/7/OF7 Advertisement AACR-CANCER RESEARCH UK TRANSATLANTIC FELLOWS AACR €300,000/\$400,000 4-Year Grant
for Promising Postdocs SUBMIT AN APPLICATION BY JULY 2S **CANCER DISCOVERY** Search. Advanced Search About Articles For Authors Alerts Research Watch A Bispecific Antibody Targeting HER2 and HER3 Suppresses Tumor Growth DOI: 10.1158/2159-8290.CD-RW2018-087 Published July 2018 📵 Check for updates Info & Metrics July 2018 Volume 8, Issue 7 Table of Contents Major finding: Unbiased phenotypic combinatorial screening uncovers a bispecific antibody (bAb) targeting HER2 and HER3. Table of Contents (PDF) Mechanism: The HER2/HER3-targeted bAb blocks HRG/HER3 signaling through a "dot Index by Author Editorial Board (PDF) · Impact: This bAb design may allow therapeutic targeting in tumors resistant to monoclonal HER2 dimerizes with HER3 to activate PI3K/AKT signaling and promote tumor growth and survival. Resistance to HER2-targeted Sign up for alerts therapies can occur via upregulation of HER3 or its ligand HRG. These findings support therapeutic approaches aimed at inhibiting HER3 pathway activation, but these strategies have failed to provide meaningful clinical benefit. Geulien and colleagues sought view this article with LENS to identify bispecific antibodies (bAb) that can potently block PI3K/AKT signaling via HER3. An unbiased phenotypic combinatorial screen of 545 bAbs targeting both HER2 and HER3 identified bAbs that potently inhibited tumor growth. Subsequent humanization and optimization of the top hit yielded PB4188, a bispecific immunoglobulin G1 (IgG1) © Request Permissions **У** Tweet antibody against HER2 and HER3. PB4188 potently inhibited tumor cell growth, even under high Article Alerts Email Article levels of HRG where monoclonal antibodies (mAb) targeting HER2 and HER3 failed to suppress growth. Further. PB4188 inhibited HRG-mediated HER2-HER3 heterodimerization and downstream Citation Tools signaling. In vivo, PB4188 inhibited HRG-driven tumor growth in a dose-dependent manner in an ERBB2 (encoding HER2)-amplified breast cancer xenograft model, whereas the tumors were Jump to section resistant to the HER2-targeted monoclonal antibody trastuzumab. Similar results were observed in Article other tumor xenograft and patient-derived xenograft models. PB4188 acted through a "dock and Abstract block" mechanism, with the HER2 antigen binding fragment (Fab) of PB4188 docking and saturating Notes HER2 binding sites on tumor cells, thereby increasing the local concentration of HER3 Fab to block Info & Metrics HRG binding to HER3 and abolish downstream signaling. These findings indicate that a IgG1-based bAb targeting HER2 and HER3 may be effective in tumors with hyperactive HRG/HER3 signaling Advertisement even when mAb therapies have failed. Further, bAbs designed with this "dock and block" mode of action may allow for therapeutic targeting of a broad range of targets where clinical activity cannot AACR Journals Editors' Picks be achieved using mAbs. Geuijen CA, De Nardis C, Maussang D, Rovers E, Gallenne T, Hendriks LJ, et al. Unbiased Now featured in combinatorial screening identifies a bispecific IgG1 that potently inhibits HER3 signaling via HER2-Cancer Research Catalyst guided ligand blockade. Cancer Cell 2018;33:922-36. READ THE BLOG AACR American Association for Cancer Research Notes Note: Research Watch is written by Cancer Discovery editorial staff. Readers are encouraged to consult the original articles for full details. For more Research Watch, visit Cancer Discovery online at http://cancerdiscovery.aacrjournals.org/CDNews. No related articles found. ©2018 American Association for Cancer Research View Abstract Cited By... Previous More in this TOC Section Back to top Info For **About Cancer Discovery** AAC American As Submit a Manuscript

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Scientists at The Scripps Research Institute (TSRI) have discovered a way of creating HIV- resistant cells		HIV Cure, Despite Headlines Here's What We Know	
by using antibodies to block HIV directly on the cell surface. Interestingly, in lab experiments, the			
resistant cells largely replaced the susceptible cells, potentially leading to long-term HIV protection.			
The new technique, which researchers referred to as "a form of cellular vaccination," has an advantage over	D. Waller	The Only Cases of HIV Cure or	
a form or ceitular vaccination, has an advantage over other therapies in that the antibodies are expressed by the cell and dock on the cell surface rather than float		Remission Beyond the Berlin	
freely throughout the bloodstream. This allows the antibodies to block the specific interaction between		Patient: How Researchers Are	Game Change
HIV and CD4, the primary cell receptor for entry of the virus. However, the antibodies do not block CD4 from		Now Trying to Cure More HIV-Positive People (Video)	HIV
performing normal cellular activities. Scientists initially used the rhinovirus as a model,	- 1 S	What Would an HIV Cure Mean for You?	"Our will
which is responsible for many cases of the common cold. They used a lentiviral vector to deliver a new	871		fight [HI tells us a
gene to cultured human cells. The new gene instructed cells to synthesize antibodies that bind with the human Kevin	senior author Dr. Richard Lerner (Credit: Fung, courtesy of amfAR)	MOST VIEWED 'Female Condom'	about w
In a Darwinian "survival of the fittest" lab dish, cells		Gets a Genderless Rebrand From FDA	
without antibody protection died off, leaving protected cells to s protective gene to new cells.	survive and multiply, passing on the	Virginia Governor Northam's Blackface Med	SEE TONIA'S ST
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IVI A I N I A I N interaction, s express the	scientists engineered immune cells to antibody gene. The researchers found	Chlamydia and Gonorrhea Responsible for	advertising policies.
	ter attempted infections in a petri dish, the sistant to HIV.	10% of New HIV Infections Among MSM, According to	
The research	ners, led by study senior author Dr. er, Lita Annenberg Hazen Professor of	New Study	
Immunocher investigators	mistry at TSRI, plan to collaborate with at City of Hope's Center for Gene Therapy	For Our Stable HIV Patients, Why Are We Still Sending	
testing in pa	es to evaluate the new therapy before tients. City of Hope currently has active of using gene therapy and blood stem cell	All These Lab Tests So Often?	
transplantati	on to cure HIV.	Six Things Providers Should	
"The ultimate goal will be the control of HIV in patients with AID need for other medications," said Dr. John Zaia, director of the	Center for	Know About HIV- Associated	
Gene Therapy in the Hematological Malignancy and Stem Cell To Institute at City of Hope.	will be the control of HIV in patients	Neurocognitive Disorders	
Commenting on the study for the San Diego Union-Tribune, am associate director of research Dr. Marcella Flores said the "dock	and block" the need for other		
technique described by these researchers holds promise as an a stem cell transplantation. But she said more study is required b trials can commence.	efore patient medications.		
The findings were published April 12 in Proceedings of the Natio	anal Academy of Sciences.		
Read the full press release here.			
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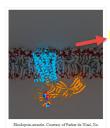
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Or, why you should care about G protein-coupled receptors

Ever wondered how that daily beta blocker is actually lowering your blood pressure? Or how clopidogrel thins your blood and helps stave off heart attack and stroke?

So do Eric Xu, Ph.D., and a team of collaborators at Van Andel Research Institute. For more than a decade, they have been studying a class of receptors on the surface of cells called G protein-coupled receptors (GPCRs) and, last week, they published a new set of findings in Cell that reveal the lock-and-key structure of how these receptors interact with one of their key signaling proteins, called arrestins.

Why is this important? Because GPCRs are part of the most active and complex network of communication channels among cells in the human body, and anywhere from 30-40 percent of drugs currently on the market (depending on whom you ask) interact with GPCRs in some way.



Xu and the team discovered sequences of three chemical tags called phosphory! groups that function like the combination to a safe, matching up with pockets on arrestins and allowing them to dock onto GPCRs, effectively block incoming communication on a specific channel.

This is where it gets really important for development of new drugs, in addition to refinement of the ones we already have: if drug development teams know how to stop a cancer from responding to signals for rapid growth, they could theoretically design new therapeutics to improve wellness across a litany of different diseases.

At least that's the hope.

And, because GPCRs are so common—there are an estimated 825 different types of GPCRs-the goal is that drugs could be developed to better treat tuning the fidelity of signals from the retina to the optic nerve, for instance ople with retinanative

could possibly help restore at least partial sight to people with retinopathy.

In addition to answering a longstanding question in basic biology. Xu and the team hope that the information uncovered in their study can be used to design new therapies that have higher potency and greater specificity than some of those currently available.

In other words, they hope to build better drugs that offer higher response rates and fewer side effects.

What is structural biology? And how does it help us improve human health? Click the image below



A culture of collaboration: Van Andel Research Institute and Michigan State University

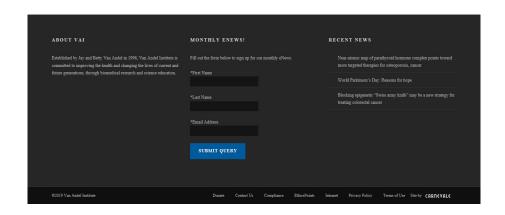
Promising results from study of type 2 diabetes drug in treatment of Parkinson's disease



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Control of the building-block pool





A Trojan Horse or pipe dreams?

Witschi and her team have already been able to show with other proteins that their approach works in principle. For instance, they were able to replace all the proline residues in green fluorescent protein (GFP) by using minimally modified synthetic



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To: Merus N.V. (jlclark@woodphillips.com)

Subject: U.S. TRADEMARK APPLICATION NO. 79225691 - DOCK & BLOCK - 11137T00050U - Request for

Reconsideration Denied - Return to TTAB

Sent: 4/16/2019 4:49:34 PM

Sent As: ECOM113@USPTO.GOV

Attachments:

UNITED STATES PATENT AND TRADEMARK OFFICE (USPTO)

U.S. TRADEMARK APPLICATION

USPTO OFFICE ACTION (OFFICIAL LETTER) HAS ISSUED ON 4/16/2019 FOR U.S. APPLICATION SERIAL NO. 79225691

Please follow the instructions below:

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The Office action may not be immediately viewable, to allow for necessary system updates of the application, but will be available within 24 hours of this e-mail notification.

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(3) **QUESTIONS:** For questions about the contents of the Office action itself, please contact the assigned trademark examining attorney. For *technical* assistance in accessing or viewing the Office action in the Trademark Status and Document Retrieval (TSDR) system, please e-mail TSDR@uspto.gov.

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