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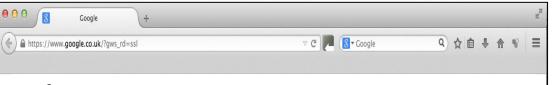
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Type 2 Diabetes Is a Preventable Disease - Lifestyle Is the Key

Jaakko Tuomilehto

Published in : Journal of Medical Sciences ; Vol 3, No 2 (2010) DOI: 10.2174/1996327001003020082

Home> Vol 3, No 2 (2010) > Tuomilehto

Abstract

10.2174/199632700100302008

ABOUT THE AUTHOR

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Jaakko Tuomilehto

Type 2 diabetes is increasing rapidly all over the world. Since it develops from an interaction between genes and lifestyle factors, it can also be prevented by influencing its modifiable risk factors. During the last two decades, several well-designed and properly conducted controlled trials have confirmed that lifestyle intervention is highly effective in preventing type 2 diabetes in high-risk individuals. Such trials have been carried out in many different populations and living environments - all of them producing similar beneficial effects. Moreover, long-term follow-up of the participants in such trials has revealed that these benefits are sustaining long after the actual intervention has been stopped. It is however likely that different people benefit from different interventions, and this may partly depend on their genetic constellations. The results from these trials must now be applied in the real-life settings in order to stop the pandemic of type 2 diabetes



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Ismail A, Campbell MJ, Ibrahim HM, Jones GL. F related quality of life in Malaysian children. Hea Apache/2.0.52 (Red Hat) Server at erikjheels.com Port 80 Life Outcomes 2006; 4:39.

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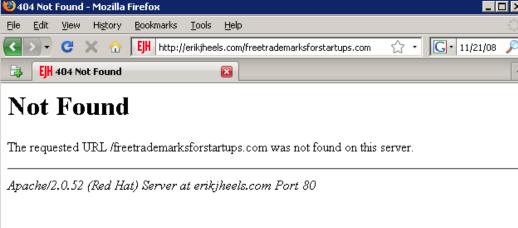
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Published in : Journal of Medical Sciences; Vol 3, No 2 (2010) DOI: 10.2174/1996327001003020082

Type 2 Diabetes Is a Preventable Dis

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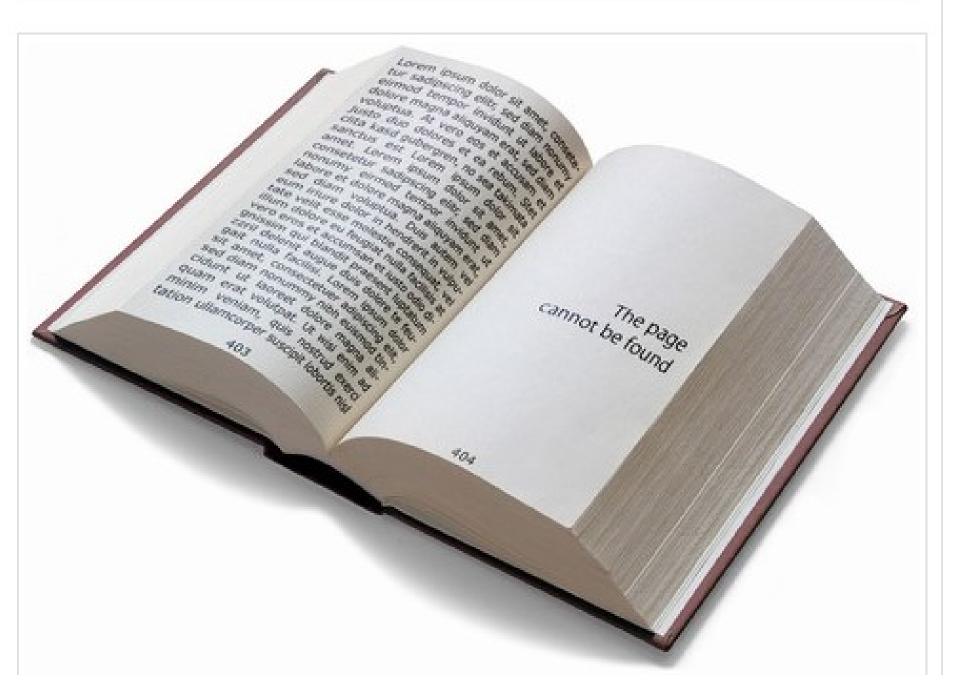
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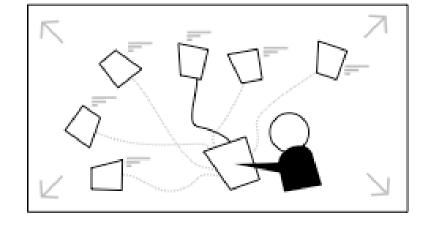
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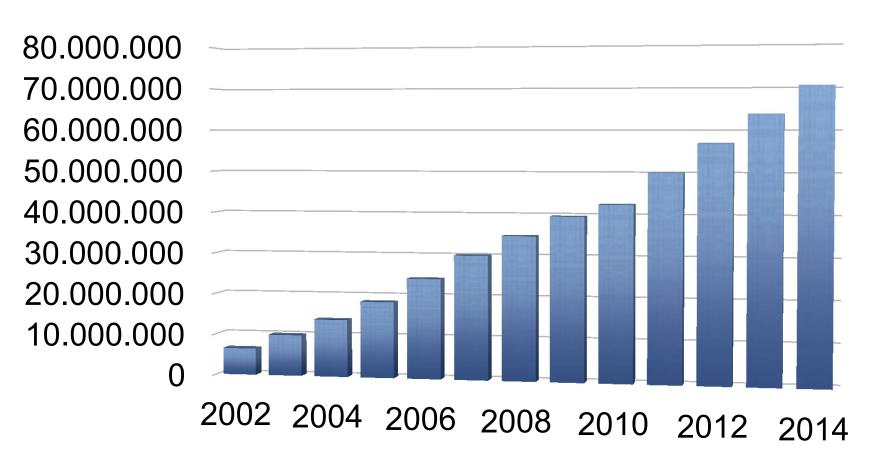
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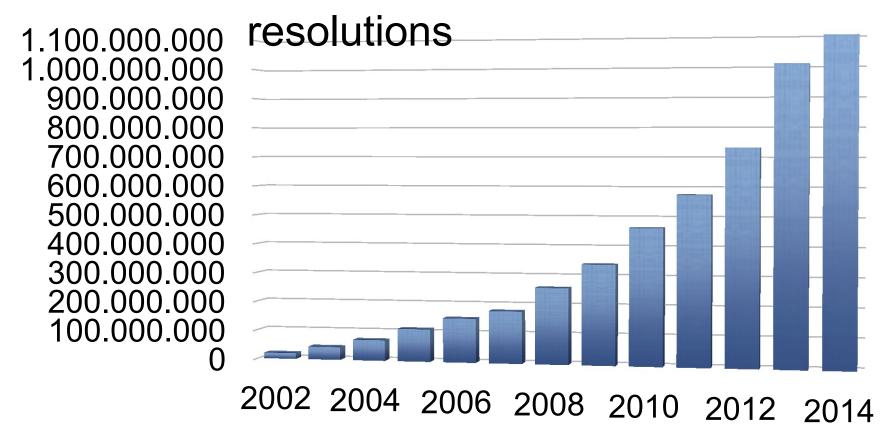


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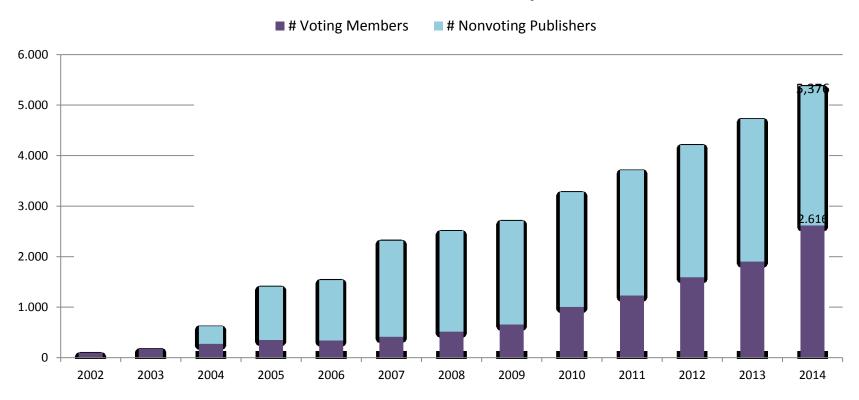
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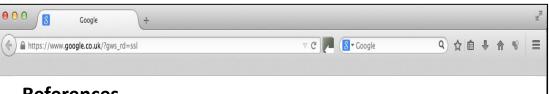


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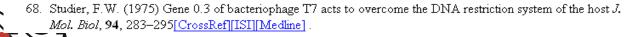
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Phys. Rev. B 89, 155317 - Published 22 April 2014

Rui-Lin Chu, Gui-Bin Liu, Wang Yao, Xiaodong Xu, Di Xiao, and Chuanwei Zhang

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ABSTRACT

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INTRODUCTION

TIGHT-BINDING MODELING

RASHBA-TYPE SOC IN THE EDGE BAND

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MATERIAL CONSIDERATIONS

CONCLUSION



ABSTRACT

Majorana fermions, quantum particles with non-Abelian exchange statistics, are not only of fundamental importance, but also building blocks for fault-tolerant quantum computation. Although certain experimental breakthroughs for observing Majorana fermions have been made recently, their conclusive detection is still challenging due to the lack of proper material properties of the underlined experimental systems. Here we propose a platform for Majorana fermions based on edge states of certain nontopological two-dimensional semiconductors with strong spin-orbit coupling, such as monolayer group-VI transition-metal dichalcogenides (TMDs). Using first-principles calculations and tight-binding modeling, we show that zigzag edges of monolayer TMD can host a well isolated single edge band with strong spinorbit-coupling energy. Combining with proximity induced s-wave superconductivity and in-plane magnetic fields, the zigzag edge supports robust topological Majorana bound states at the edge ends, although the two-dimensional bulk itself is nontopological.

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Review Article

Lineage Switching in Acute Leukemias: A Consequence of Stem Cell Plasticity?

Elisa Dorantes-Acosta^{1,2,3} and Rosana Pelayo²

Acknowledgments

The authors apologize to investigators whose work could not be discussed due to space limitation. The authors thank the members of the Lymphopoiesis Lab from UIMEO, Dr. Aurora Medina, and Dr. Onofre Muñoz for critical input and academic support.



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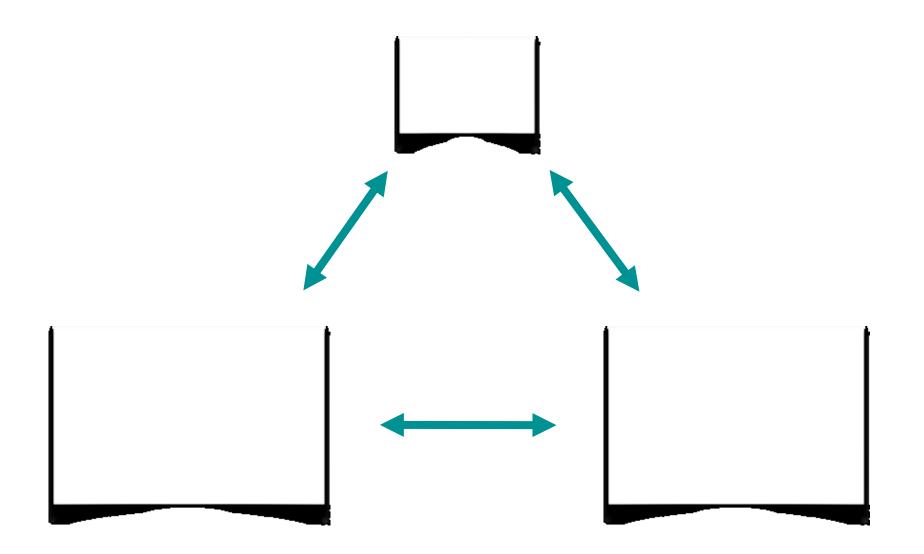


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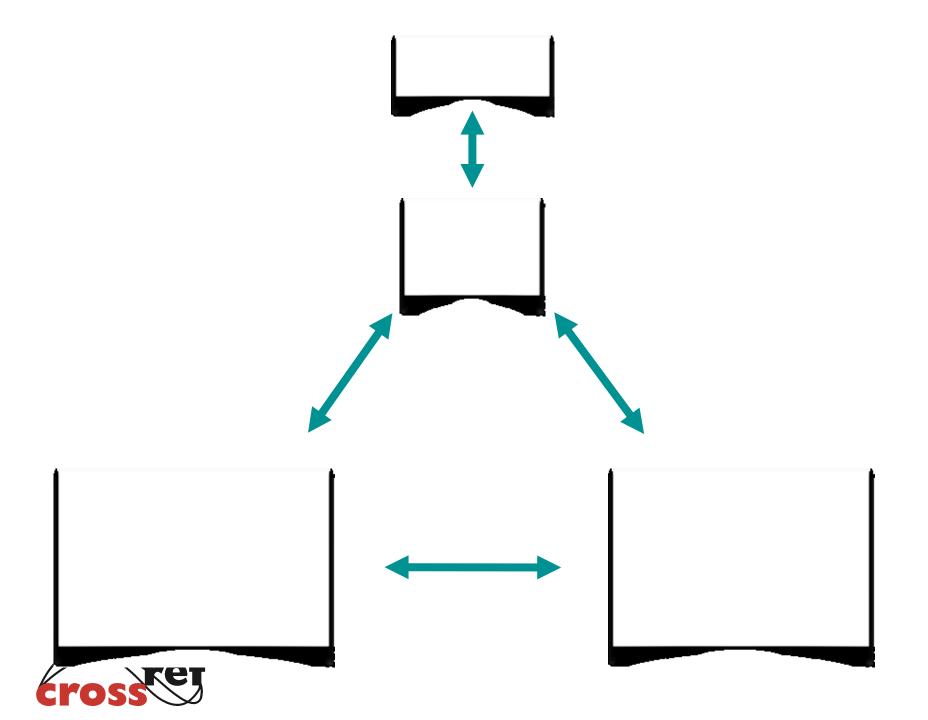
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