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Michael Ladisch / Michele Gibney
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Myths

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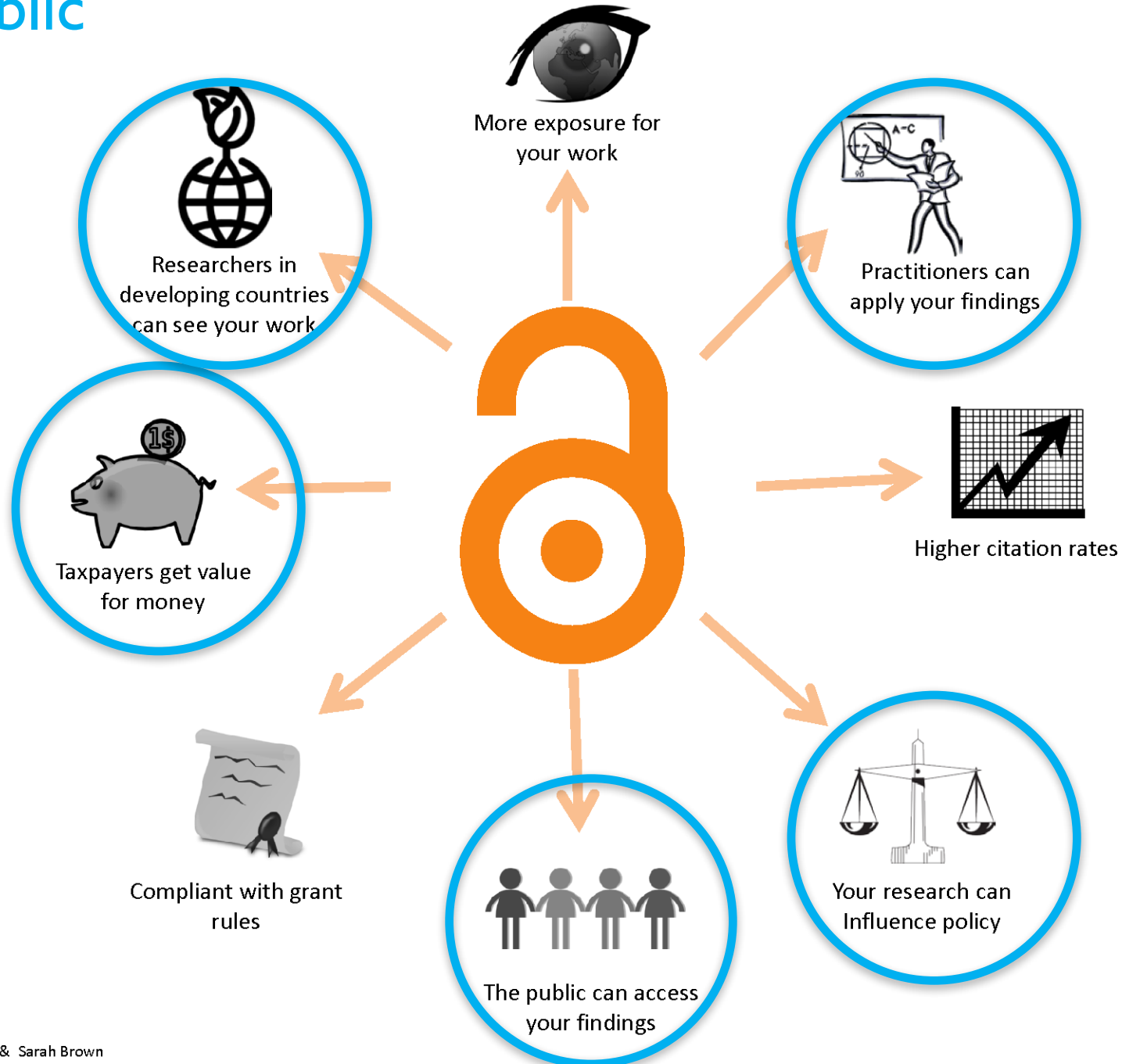
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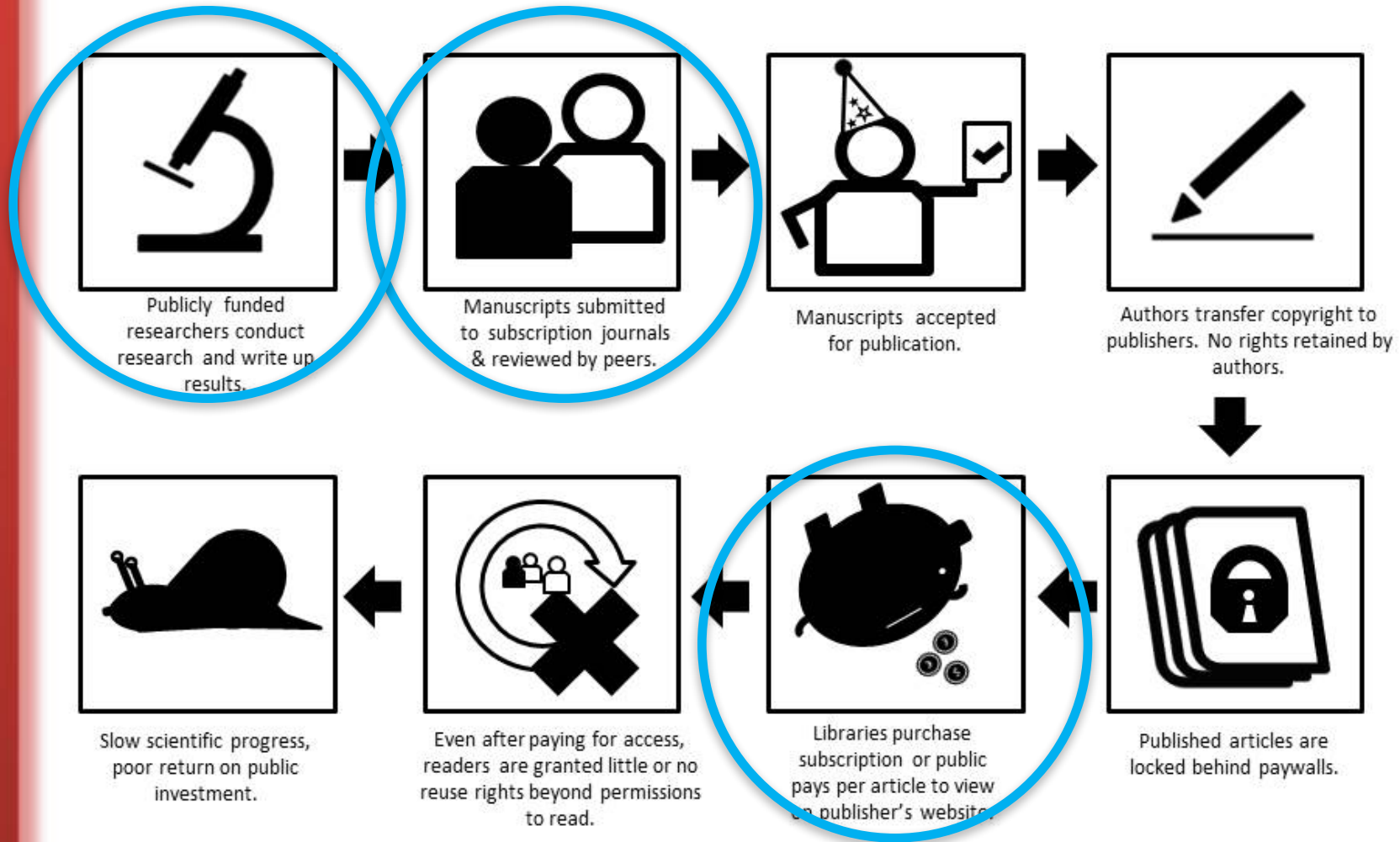


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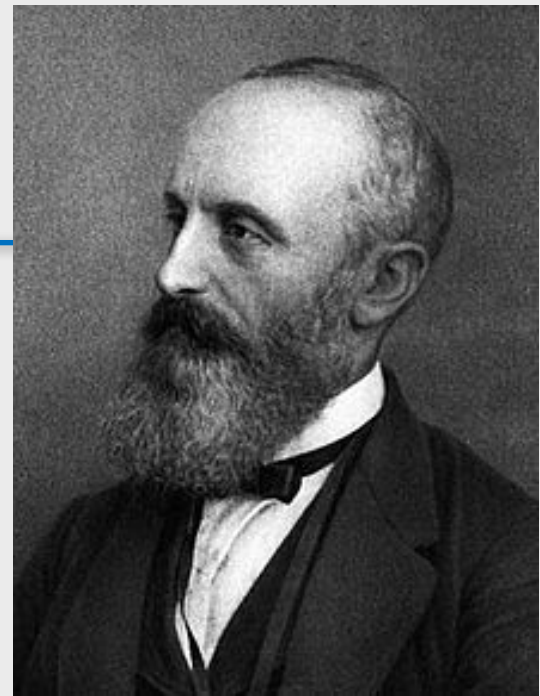
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(Financial Times, Nov 15, 2015)



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- 2002
 - Public statement of principles related to OA in research literature
- 2012
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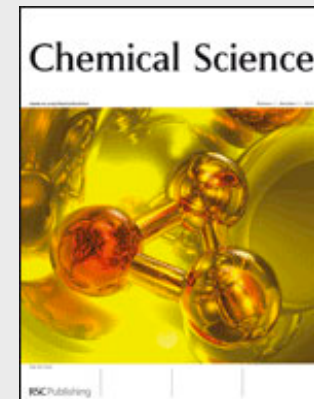
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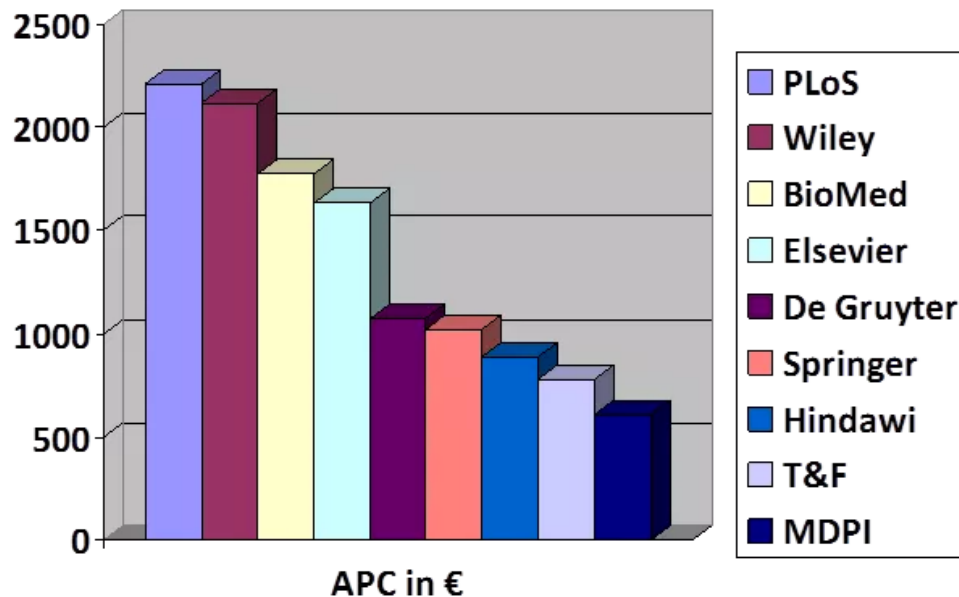
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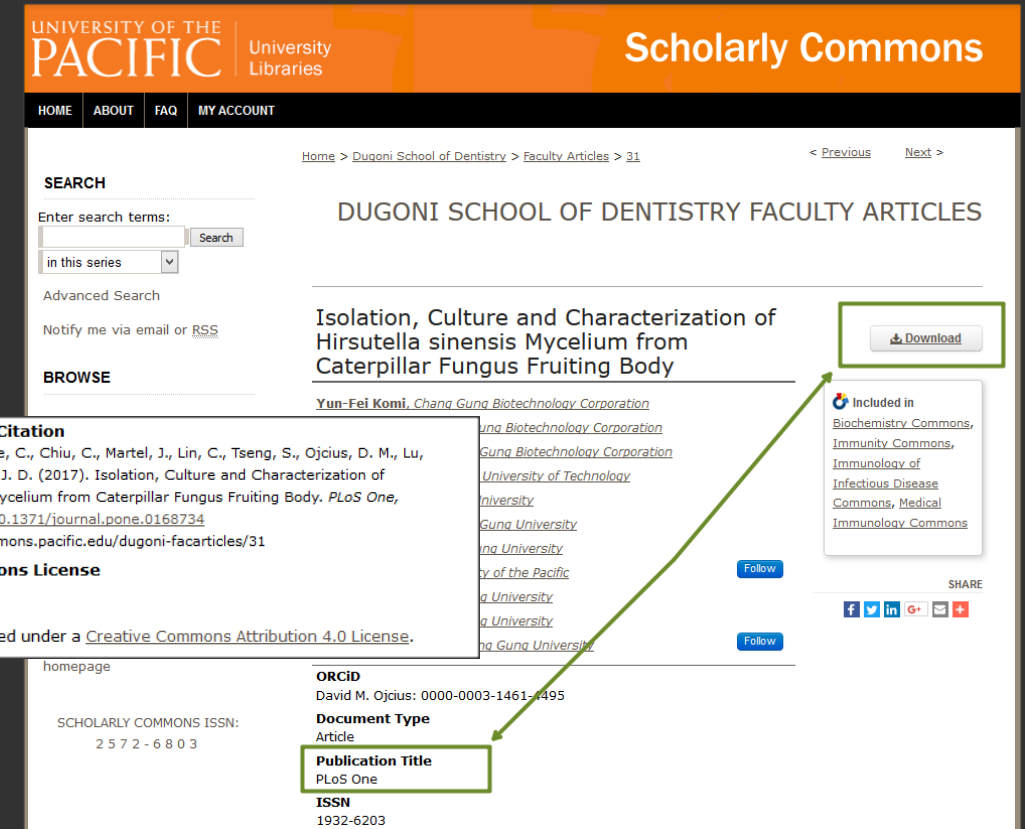


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Benefits of a comprehensive undergraduate teaching assistant program

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Abstract
The Undergraduate Teaching Assistant (UTA) Program at the University of Arizona exposes students to many different aspects of teaching an undergraduate mathematics course. The program's breadth generates various qualitative and quantitative benefits. Some of these benefits are

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RESEARCH ARTICLE

Isolation, Culture and Characterization of *Hirsutella sinensis* Mycelium from Caterpillar Fungus Fruiting Body

Yun-Fei Ko^{1,2,3}, Jian-Ching Liao¹, Chien-Sheng Lee¹, Chen-Yaw Chiu², Jon Martel^{3,4,5}, Chuan-Sheng Lin^{3,4,6,7,8}, Shun-Fu Tseng^{3,4}, David M. Ojcius^{3,4,9}, Chia-Chen Lu¹⁰, Hsin-Chih Lai^{3,4,6,7,8,11,12,13}, John D. Young^{12,13,14}*

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Abstract

The caterpillar fungus *Ophiocordyceps sinensis* (previously called *Cordyceps sinensis*) has been used for centuries in Asia as a tonic to improve health and longevity. Recent studies show that *O. sinensis* produces a wide range of biological effects on cells, laboratory animals and humans, including anti-fatigue, anti-infection, anti-inflammatory, antioxidant, and anti-tumor activities. In view of the rarity of *O. sinensis* fruiting bodies in nature, cultivation of its anamorph mycelium represents a useful alternative for large-scale production. However, *O. sinensis* fruiting bodies harvested in nature harbor several fungal contaminants, a phenomenon that led to the isolation and characterization of a large number of incorrect mycelium strains. We report here the isolation of a mycelium from a fruiting body of *O. sinensis* and we identify the isolate as *O. sinensis*' anamorph (also called *Hirsutella sinensis*) based on multi-locus sequence typing of several fungal genes (ITS, rSSU, rLSU, RPB1, RPB2, MCM7, β -tubulin, TEF-1 α , and A1PE). The main characteristics of the isolated mycelium, including its optimal growth at low temperature (16°C) and its biochemical composition, are similar to that of *O. sinensis* fruiting bodies, indicating that the mycelium strain characterized here may be used as a substitute for the rare and expensive *O. sinensis* fruiting bodies found in nature.

OPEN ACCESS

Citation: Ko Y-F, Liao J-C, Lee C-S, Chiu C-Y, Martel J, Lin C-S, et al. (2017) Isolation, Culture and Characterization of *Hirsutella sinensis* Mycelium from Caterpillar Fungus Fruiting Body. PLOS ONE 12(1): e0168734. doi:10.1371/journal.pone.0168734

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Data Availability Statement: All relevant data are within the paper and its Supporting Information files.

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Post-Print

Benefits of a Comprehensive Undergraduate Teaching Assistant Program

Abstract

The Undergraduate Teaching Assistant (UTA) Program at the University of Arizona exposes students to many different aspects of teaching an undergraduate mathematics course. The program's breadth generates various qualitative and quantitative benefits. Some of these benefits are that the UTAs improve their mathematics and communications skills, instructors have additional support both inside and outside the classroom, and mathematics students in classes with UTAs enjoy their mathematics classes more than students in similar classes without UTAs.

Key Words: Undergraduate teaching assistants, qualitative and quantitative benefits

Introduction

The University of Arizona Mathematics Department has long used undergraduates as graders and tutors for lower division classes, as is the practice at many schools around the country. In the spring semester of 2000, the mathematics department initiated a new Undergraduate Teaching Assistantship Program that allows students to gain experience beyond just grading and tutoring. In the new program, each undergraduate teaching assistant (UTA) is paired with an instructor teaching a lower division mathematics class of approximately 35 students. After receiving initial training, the UTAs become actively involved in several different aspects of mathematics instruction, such as facilitating in-class group work, holding study sessions and office hours, and grading homework. Moreover, each UTA works in the department's drop-in tutoring room and attends regular training sessions throughout the semester. Funding for the program comes

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