

# Simple guide to successful scientific presentation

Source:

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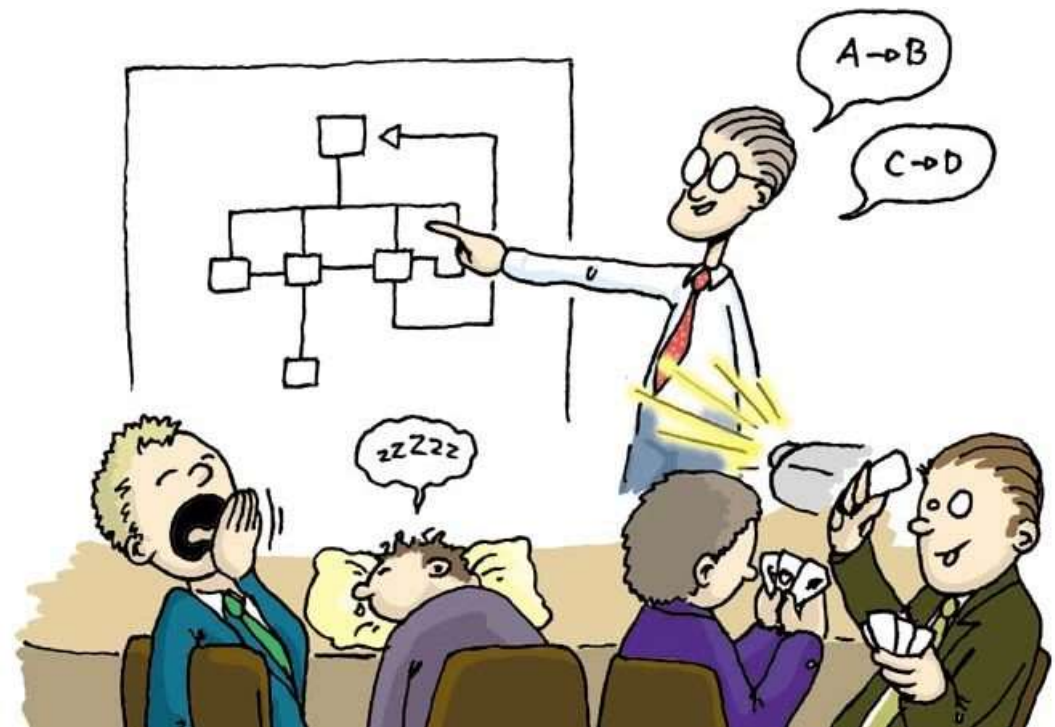
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# Outline

- \* Problem of Thai Students
- \* The concepts of presentation
- \* Examples of the unprepared
- \* Comments
- \* Improvement
- \* What we learned



# Planning

- \* Keep to simple, only a few main points
- \* Structure must follow logical progression
- \* Have outline and conclusion slides
- \* 1-2 min/slide; Too many slides will saturate audience

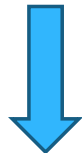


# Flow of story

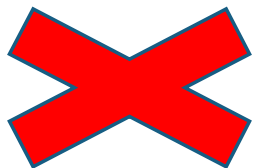
Introduction: background



Aim of research



Experiments 1,2,3,4



Answer questions

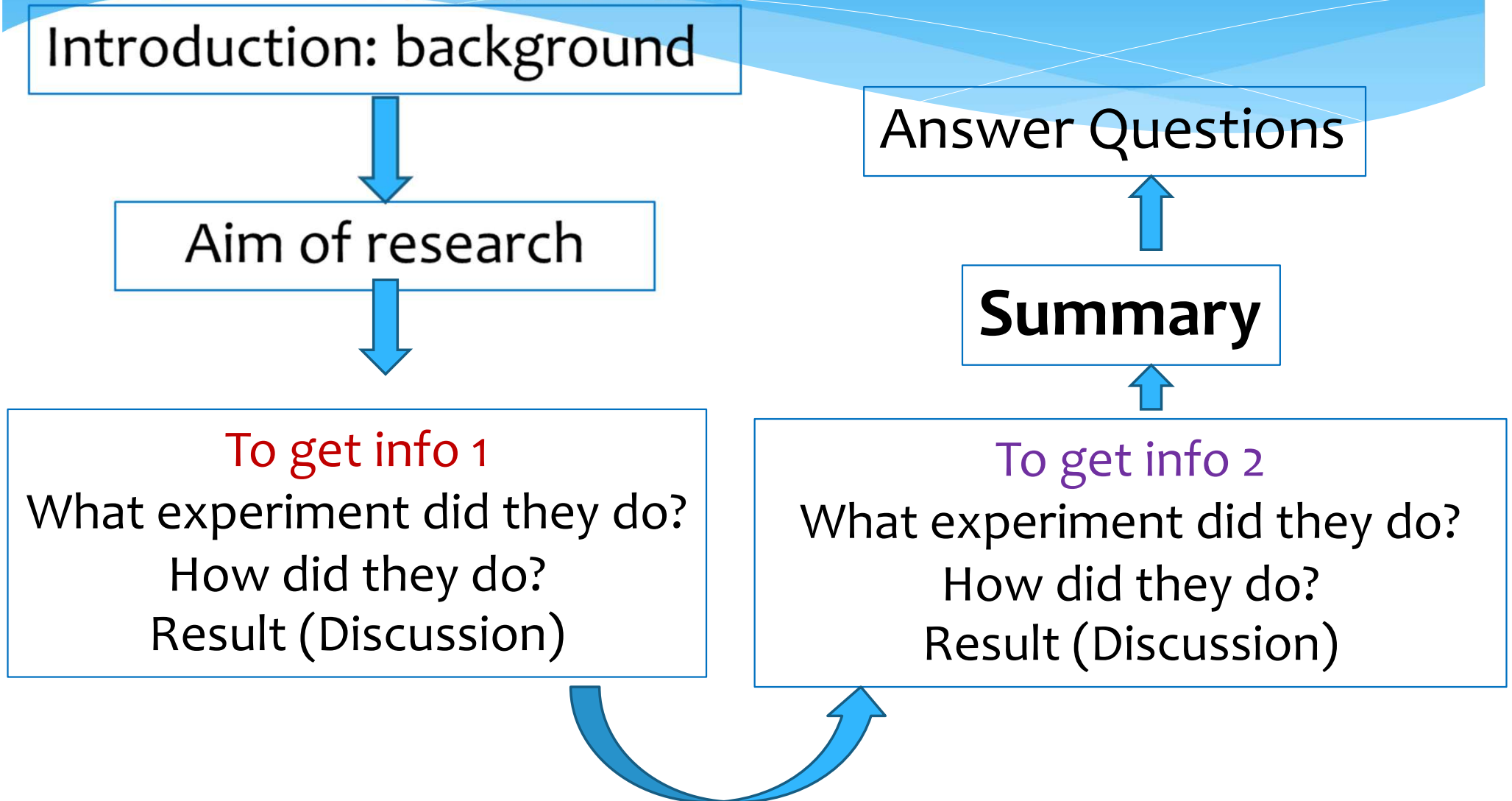


Summary



Results 1,2,3,4

# Flow of story



# Making slides

- \* Avoid too bright color background
- \* **In a dark room, choose a light colored text on a dark background**
- \* **In a lighted room, use dark text on a light background**
- \* Keep same colored background

# Making slides

- \* Emphasize key points. **Use contrasting colors**
- \* Some colors look great on computer but bad on screen
- \* Use only **max highly contrasting 2-3 colors/slide**
- \* Avoid fancy slide transition
- \* Spelling check



# Making slides

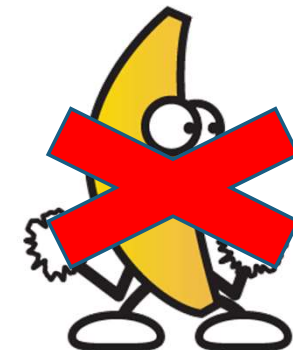
- \* Easy to read font: Arial  $\geq$  point
- \* Keep text simple
- \* Only keyword, not whole
- \* Sentence, Do not over-text
- \* Use symbols
- \* Don't show complicated tables or DNA sequences, digest them

~~Times New Roman~~



# Making slides

- \* Slide number
- \* Don't show raw data
- \* Don't go too much into well known methods
- \* Slide must have a short descriptive title and a short conclusion and clear labeling
- \* Moving animation will distract audience



# Good/bad power point slides

## GOOD




### 2. TEAMWORK - Trite But True



- One direction - many lanes. (Corp lane, Field lane, HDV lane)
- Move at the Speed of Trust
- Humility born out of confidence

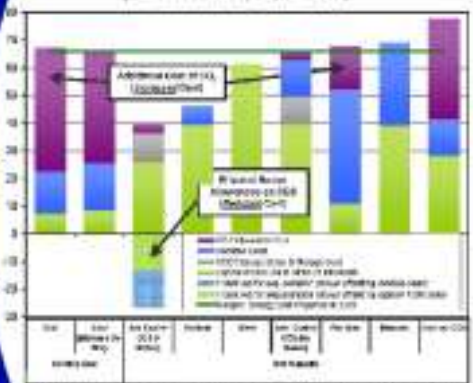
COX COMMUNICATIONS LEADERSHIP CONFERENCE - EMBERY EDMOND

## BAD



### Near-Term Power Plant Economics with CO<sub>2</sub> Allowance Costs

Estimated Power Plant Electricity Costs in 2025 for Various Technologies (includes the cost of CO<sub>2</sub> at \$30/ton in 2025)



- To illustrate the economics of operating existing and new power technologies, the chart shows the cost of various technologies when the projected CO<sub>2</sub> allowance prices are included.
- Projected CO<sub>2</sub> allowance prices of roughly \$30/ton in 2025 increase variable costs of existing plants powered by fossil fuels to the point where many are likely to shut down.
- However, 5. 2191 provides significant incentives for CCG technology for coal plants in the form of bonus allowances, resulting in earlier penetration of advanced coal with CCS.

EPA Analysis of 5. 2191

Source: <https://www.google.co.th/url>

# Presentation

- \* **Be a teacher**, not just a slide presenter
- \* Face audience; make eye contact
- \* Don't block screen
- \* Speak loudly, clearly and confidently
- \* Use spoken language
- \* Do not read slide

# Presentation (cont.)

- \* Point at the screen
- \* Not over-use pointer
- \* Plan on about 1 slide/minute
- \* Give outline or roadmap
- \* Ask audience questions to keep them engaged

# Presentation (cont.)

- \* Do state your aims clearly
- \* Never apologize for bad graphic, spend extra time to make it right
- \* Don't say "that's it" at the end, have an ending prepared
- \* Don't go overtime, its disrespectful and unprofessional
- \* Be very prepared, practice, practice, practice

# Presentation (cont.)

## **To answer the questions:**

- \* Repeat it so that others can hear it
- \* Be polite and courteous no matter what
- \* Make it short, to the point, and informative
- \* Respond enthusiastically and leave a positive impression
- \* Not to be afraid to say you do not know



# Examples of the unprepared & How to correct it?



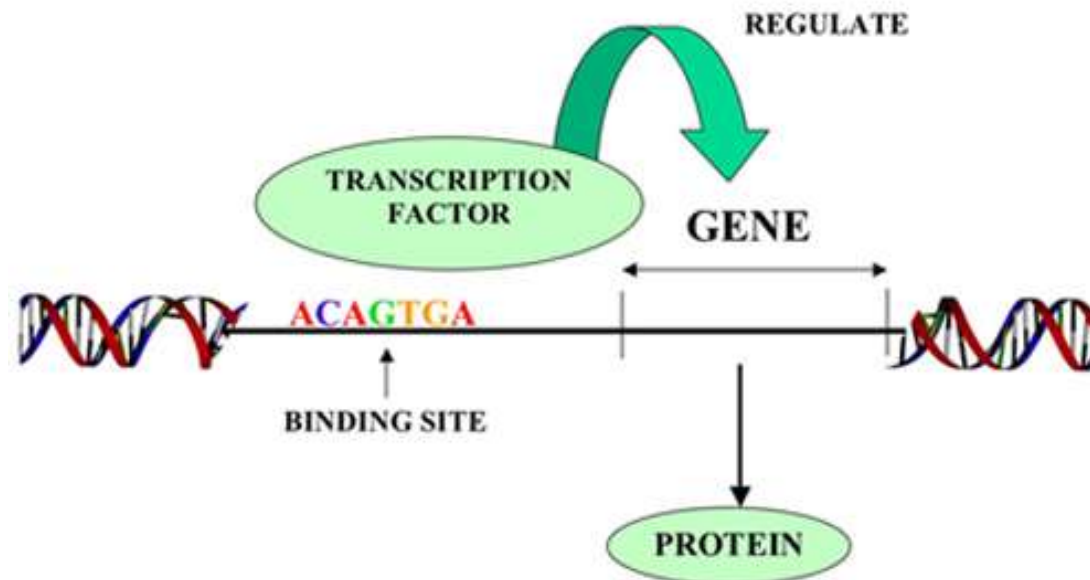
# Transcription factor

- \* Transcription factors are proteins involved in the process of converting, or transcribing, DNA into RNA. Transcription factors include a wide number of proteins, excluding RNA polymerase, that interact and regulate the transcription of genes. A distinct feature of transcription factors is that they have DNA-binding sites that have the ability to bind to specific sequences of DNA called recognition sequences. Some transcription factors bind to a specific sequence near the transcription start site and are part of the transcription initiation complex. Other transcription factors bind to regulatory sequences, such as enhancer sequences, and can be located either upstream or downstream from the transcription start site. The regulation of transcription is the most common way to control the expression of transcription factors allows for unique expression of each gene in different cell types and during development. transcription of the related genes. These regulatory sequences can be thousands

# Transcription factor

Transcription factor = Protein required for RNA Polymerase to function properly at specific promoter

Legend: A transcription factor molecule binds to the DNA at its binding site, and thereby regulates the production of a protein from a gene.



# อภิปราย

การเพาะเชื้อในอาหารเลี้ยงเชื้อ solid media ที่อุดมไปด้วย glyphosate มีเพียงเชื้อห้ำชนิดที่แสดงให้เห็นถึงความสามารถในการเติบโตที่แสดงในเห็นสารกำจัดวัชพืช เชื้อแบคทีเรีย 5 ชนิด ได้แก่ *Acetobacter* sp., *Escherichia* sp., *P. fluorescens*, *Azotobacter* sp., และ *Moraxella* sp.

แสดงให้เห็นการลดจำนวนของเชื้อแบคทีเรียที่เพาะปลูกในอาหารเลี้ยงเชื้อ(solid media) ที่อุดมไปด้วย glyphosate มีความสอดคล้องกับรายงานของ Busse (1981)

(Jacob et al., 1988; Shinabarger et al., 1984; Kishore and Jacob, 1987; Talbot et al., 1984. However, Zboinska et al. (1992) เชื้อ *P. fluorescens* ไม่สามารถใช้ glyphosate ได้ สายพันธุ์ของ *P. fluorescens* ที่นำมาใช้ในการศึกษาครั้งนี้ ไม่เพียงแต่สามารถใช้ glyphosate แต่ก็ยังสามารถที่จะเจริญเติบโตที่ระดับความเข้มข้นสูงของสารกำจัดวัชพืชได้

## 2.2 การเพิ่มปริมาณและการคัดแยกแบคทีเรียย่อยสลายราวด์อ์พลำไส้ปลวก



ลำไส้ปลวก 10 อัน.

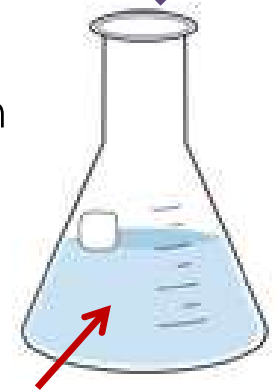


Glass homogenizer

ส่วนประกอบ BSS ; K<sub>2</sub>HPO<sub>4</sub> 2.0 กรัม KH<sub>2</sub>PO<sub>4</sub> 1.0 กรัม KCl 1.5 กรัม และ NaCl 1.5 กรัม

1ml

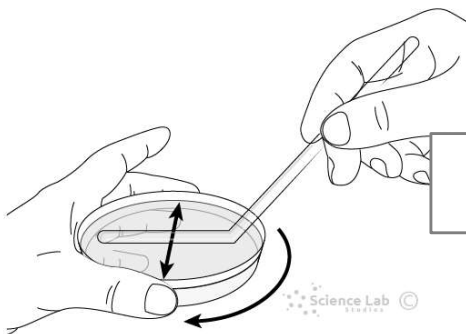
29°C , เขย่า 100 rpm



MM7 25 ml. +  
ราวด์อ์พ 1 mM

วิเคราะห์ HPLC

spread plate



# การย่อยสลายราวด์อ์พของ enrichment culture

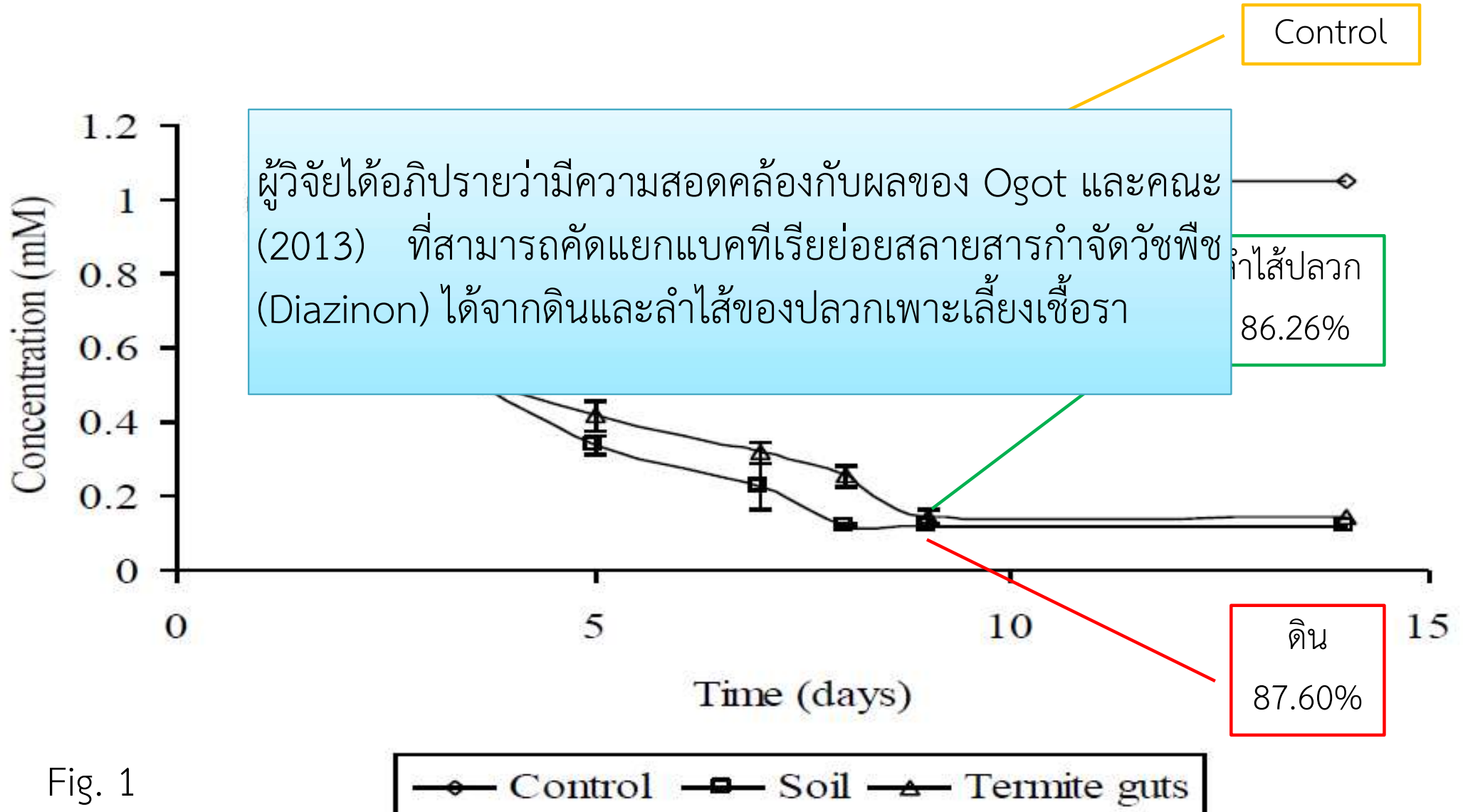


Fig. 1



# ตัวอย่างสัมมนา

# What we learned

- \* You can give a good presentation
- \* Plan your talk: smooth flow of story
- \* Simple informative slides
- \* Small note if necessary
- \* Confidently prepare your talk
- \* Practice Practice Practice

# ตารางวิชาสัมมนา

สัปดาห์ที่	สาระการเรียนรู้/เนื้อหา
4-5	นักศึกษาเตรียมหาบทความวิจัยสำหรับการนำเสนอ (paper)
6	ฝึกซ้อมนำเสนองานหน้าชั้นเรียน
7	-ตัวอย่างการนำเสนอสัมมนา -จับฉลากลำดับการสัมมนา
8	-นศ.ส่งบทความย่อที่มีลายเซ็น.ที่ปรึกษาวิจัย
8-11	นักศึกษาเตรียมนำเสนอสัมมนา
12-13	นักศึกษานำเสนอสัมมนาหน้าชั้นเรียน