



**CAN THO UNIVERSITY  
BIOTECHNOLOGY RESEARCH & DEVELOPMENT INSTITUTE**

**STUDENT EXCHANGE: AN IMPORTANT ROLE  
IN EDUCATION OF BIOTECHNOLOGY  
FOR THE FUTURE**

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**Vietnam Biotech: Growing the Future**  
**Worshop at Can Tho University, August 18<sup>th</sup> 2014**



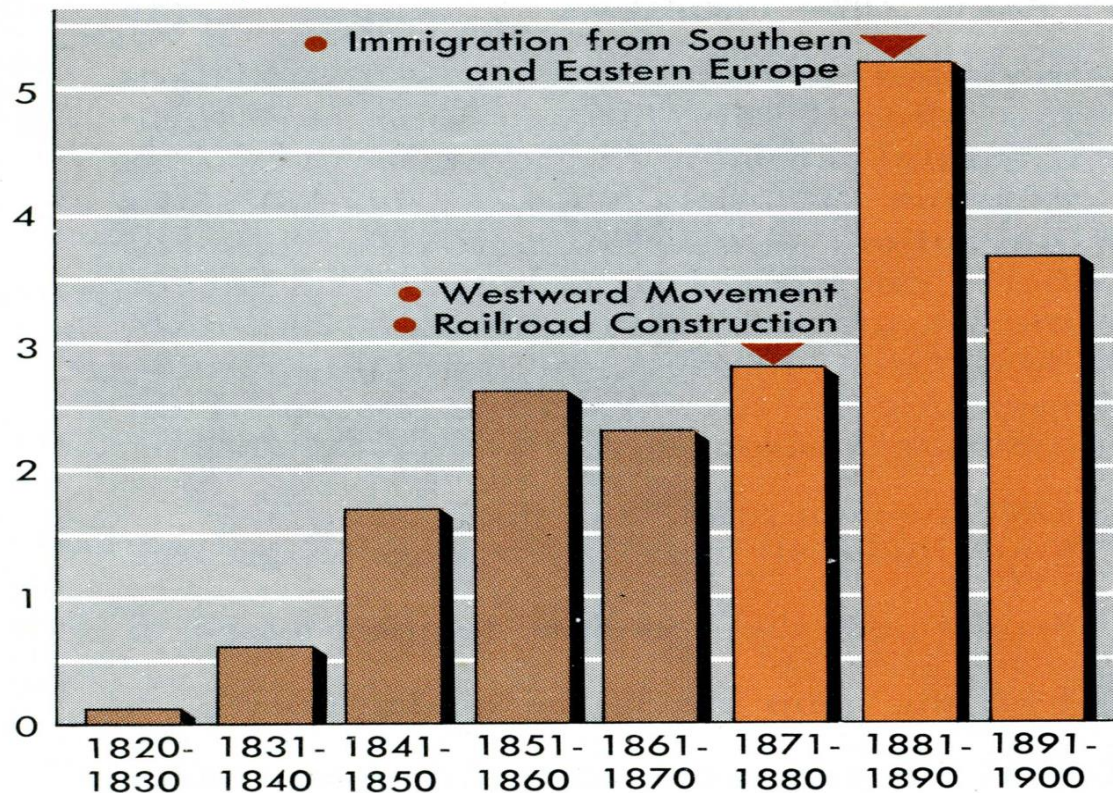
# Contents

1. Introduction
2. Student exchange and education of biotechnology for the future
3. Conclusions and Suggestion

# 1. Introduction

## 1.1. USA

Millions of People



IMMIGRATION, 1871-1900

1860 - 1900



**14 million  
foreigners**

Figure 1. USA attracted qualified human resources XIX century

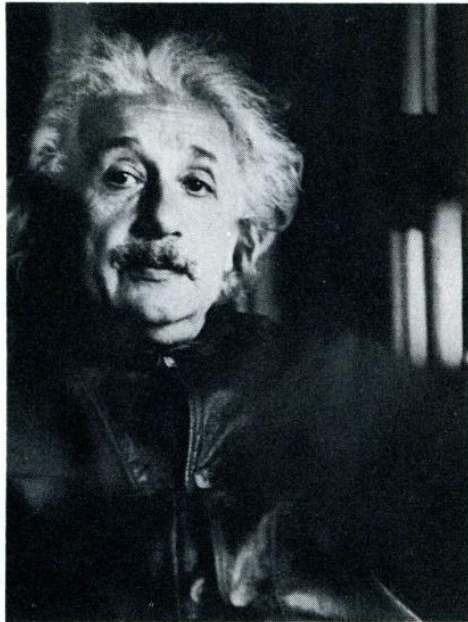
(Source: *A history of the U.S. Wade et al., 1966*)



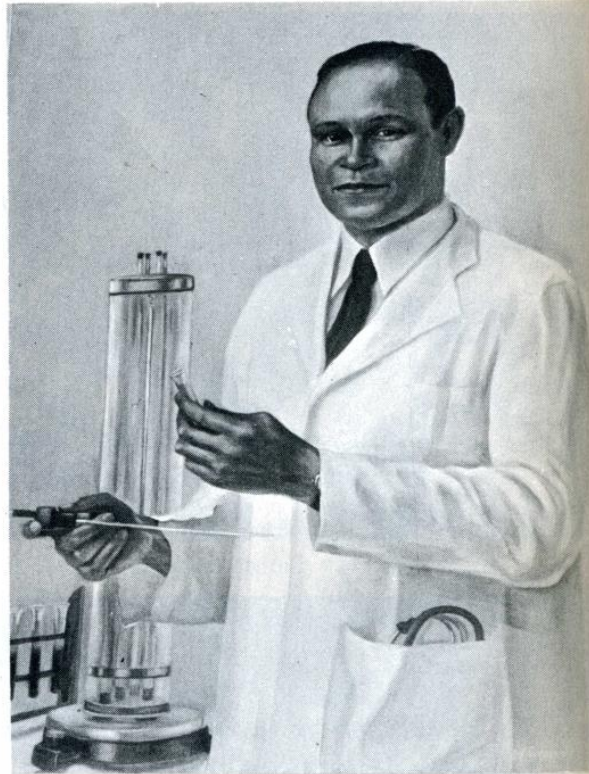


# 1. Introduction

## 1.1. USA



*The renowned scientist Albert Einstein (above) left Germany in 1932 to come to this country. Charles Drew, a Negro surgeon (right), helped save many lives during World War II by his work on the preservation and storage of blood.*



World War II



U.S. OSRD

**Figure 2. USA attracted human resources during World War II**

*(Source: A history of the U.S. Wade et al., 1966)*



# 1. Introduction

## 1.2. Japan



**Figure 3. Meiji Emperor**  
(Source: <http://tinyurl.com/nh5zpb7>)

- 1867 – 1912  
Meiji Restoration
- After World War II



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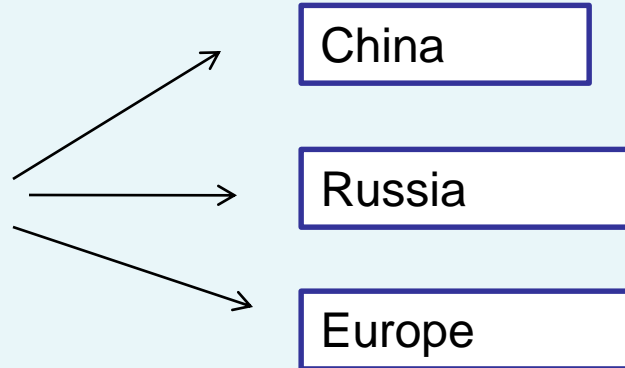
# 1. Introduction

## 1.3. Vietnam

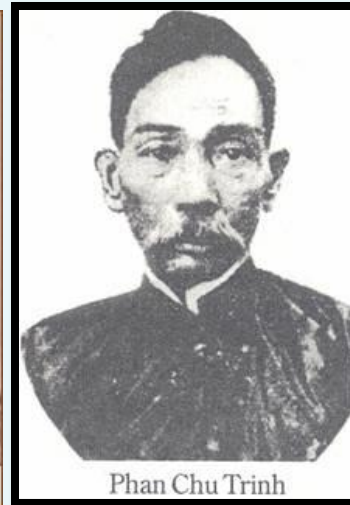


Hồ Chí Minh

Eastern higher  
study journey



Phan Bội Châu



Phan Chu Trinh

Modernization

(Source: <http://tinyurl.com/lfsrft3>)



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## 2. Student exchange

### 2.1. Projects

- Ministry of Education and Training: 322 project, 911 project
- Can Tho University: Mekong 1000,...

**Mekong 2006 - 2011**



**> 19 biotech overseas students**

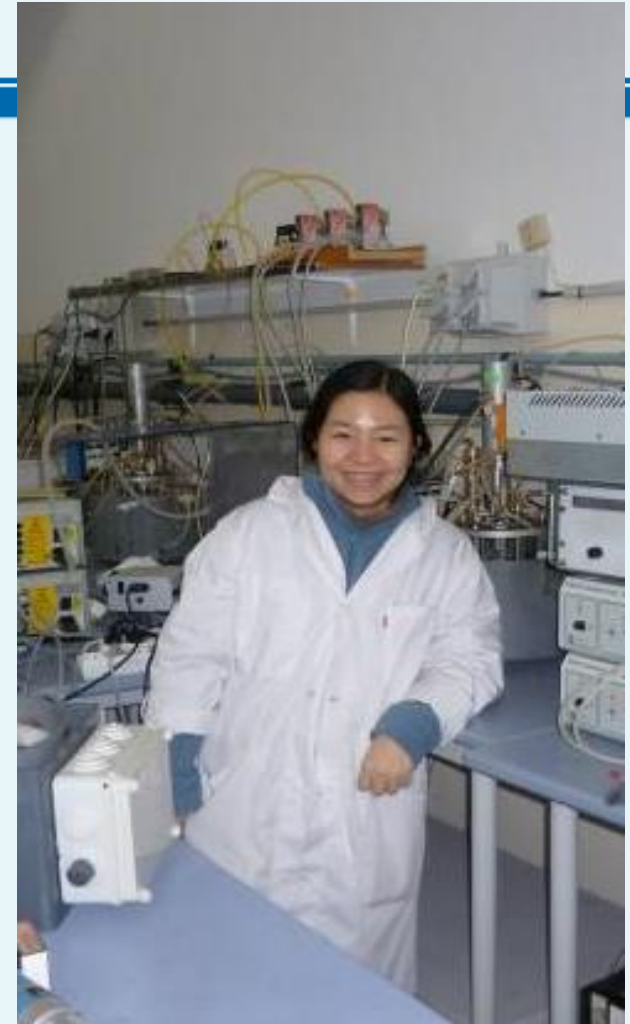


Figure 5. PhD. Huynh Ngoc Thanh Tam



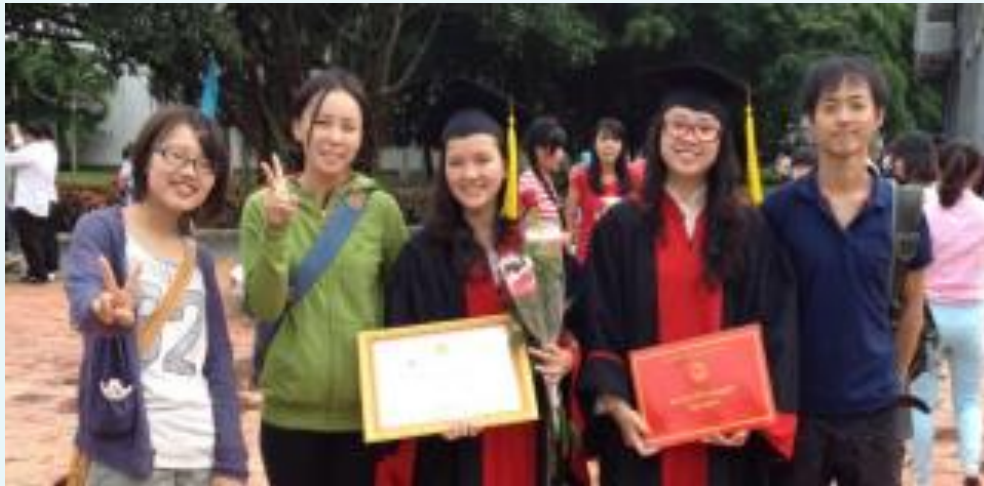


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# 2. Student exchange

## 2.2. BiRDI students

- Four foreign students
- From 2010: 10 short trainings, 32 graduate scholarships



**Figure 6. Extracurricular activities of Vietnamese – Japanese students in Can Tho - Vietnam (left) and Yamaguchi – Japan (right)**



# 2. Student exchange

## 2.2. BiRDI students



**Figure 7. BiRDI students in the U.S. – Pham Hong Quang, Vo Ngoc Thao Nguyen, Nguyen Thi Mai Dan, Ngo Thanh Phu (left to right)**



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## 2. Student exchange

### 2.2. BiRDI students

#### 2014: 28 graduate scholarships

- 9 PhD scholarships: USA (1), Japan (2), Korea (4) (3 extended from MSc), Thailand (2)
- 19 MSc scholarships: Japan (2), Belgium (1), Taiwan (2), Korea (5), Thailand (6), Israel (1).



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**Figure 8. Vietnamese students participated in Khon Kaen's festival Thailand**





## 2. Student exchange

### 2.3. BiRDI training objectives

Guidance of the advisors and the director for BiRDI students:

- Set up course curriculum by themselves
- English study
- Laboratory studies
- Thesis and scientific research
- Scholarship searching

2014: 10 MSc and PhD scholarships from  
Advanced Biotech Course 34





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## 2. Student exchange

### 2.4. Benefits

Previous students guide present students how to search scholarship



**Figure 9. Huynh Thi Yen Ly 2010 (left) and Tran Non Nuoc 2014 (right)  
at Chonnam University Korea**



# 2. 2. Student exchange

## 2.4. Benefits

Some successful BiRDI staffs in Food Biotechnology, Microbiology, Molecular Biology, and Genetics



**PGS.TS Ngô Thị Phương Dung – UC Davis, USA**



**PGS.TS Nguyễn Hữu Hiệp FULBRIGHT, USA**



**PGS.TS. Trương Trọng Ngôn, KOREA**



**PGS.TS Trần Nhân Dũng VLIR - Belgium**



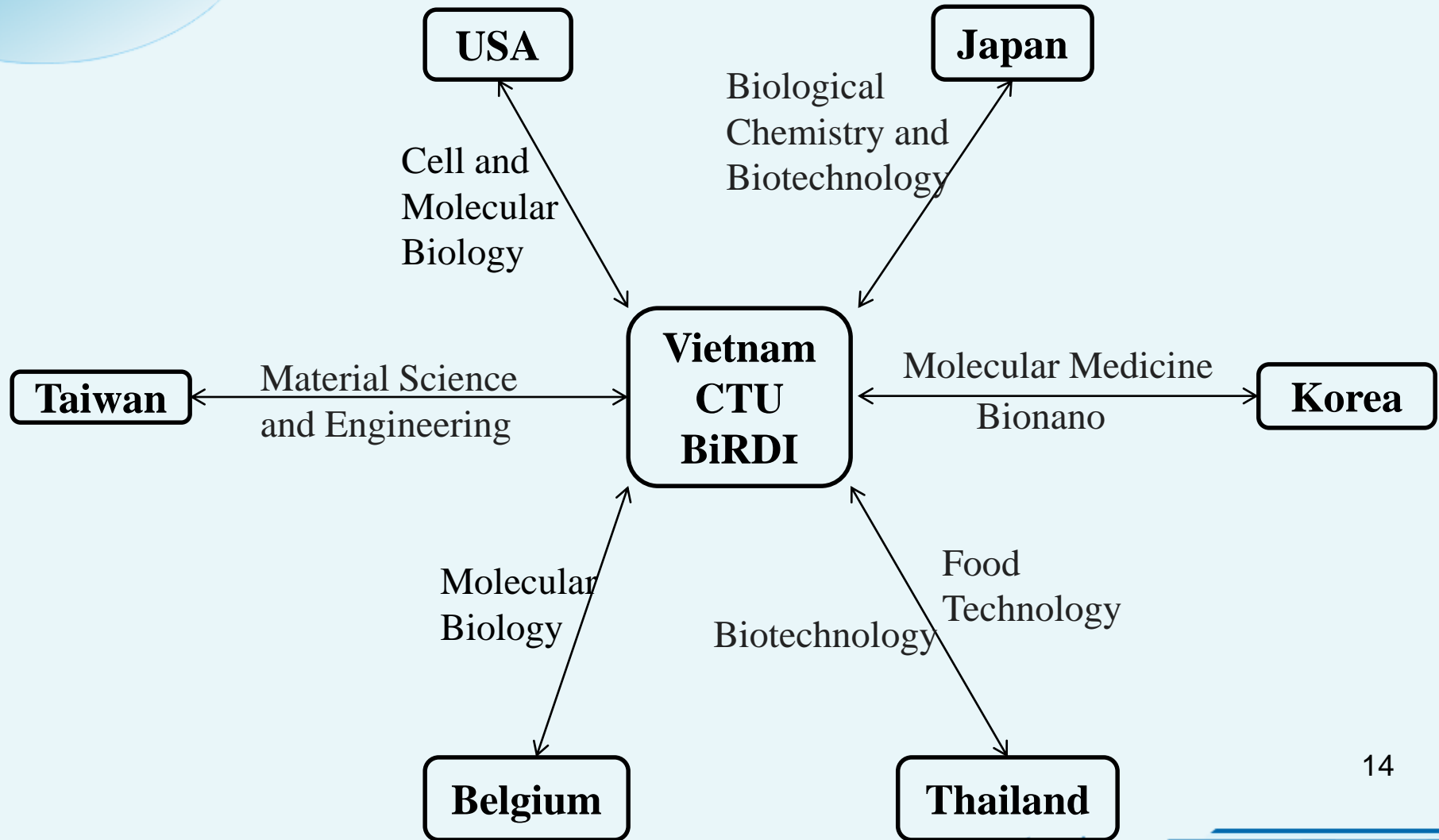
**PGS.TS. Nguyễn Văn Thành, MHO-The Netherlands**



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# 2. Student exchange

## 2.5. Future benefits







# 3. Conclusions and Suggestion

## 3.1 Conclusions

- Training and research skills
- Upgrading human resources in Biotechnology for Mekong Delta.
- Upgrading curriculum and high technologies
- Attracting new students



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# 3. Conclusions and Suggestion

## 3.2. Suggestion

- Ministry of Education and Training, Can Tho University, and BiRDI will develop and expand more exchange programs in Australia and Europe

***Thank you for your attention***