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Research Interests

1. The effect of bacterial pathogen genome on fish (cobia) immunity
2. Antimicrobial effect of TiO₂ on aquatic organism (cobia) pathogens

Recent publications:

Cobia immunology:

1. Chang, C.I., C.C. Wu, **T.C. Cheng**, J.M. Tsai, K.J. Lin. **2009**. Multiplex nested-polymerase chain reaction for the simultaneous detection of *Aeromonas hydrophila*, *Edwardsiella tarda*, *Photobacterium damsela* and *Streptococcus iniae*, four important fish pathogens in subtropical Asia. *Aquaculture Research*. 40:1182-1190. (SCI, 2012 Impact Factor: 1.422; Ranking: 23/50 =46 % Fisheries).
2. **Cheng, T.C.**, Y.S. Lai, S.Y. Lu, I.Y. Lin, C.P. Wu, S.L. Chang, T.I. Chen, M.S. Su. **2010**. Establishment, characterization, virus susceptibility and transfection of cell lines from Cobia (*Rachycentron canadum*) brain and fin. *Journal of Fish Diseases*. 33:161-169. (SCI, 2012 Impact Factor: 1.59; Ranking: 30/143 = 21% Veterinary Sciences).
3. Chang, C.I., C.F. Lee, C.C. Wu, **T.C. Cheng**, J.M. Tsai, K.J. Lin. **2011**. A selective and differential medium for *Vibrio alginolyticus*. *Journal of Fish Diseases*. 34:227-234. (SCI, 2012 Impact Factor: 1.59; Ranking: 30/143 = 21% Veterinary Sciences).
4. Cheng C.I., P.H. Hung, C.C. Wu, **T.C. Cheng**, J.M. Tsai, K.J. Lin, C.Y. Lin. **2012**. Simultaneous detection of multiple fish pathogens using a Naked-eye readable DNA microarray. *Journal of Sensors*. 12:2710-2728. (SCI, 2012 Impact Factor: 1.953; Ranking: 8/57=14% Instruments & Instrumentation)
5. Byadgi O., D. Puteri, Y.H. Lee, J.W. Lee, **T.C. Cheng***. **2014**. Identification and expression analysis of cobia (*Rachycentron canadum*) Toll-like receptor 9 gene. *Fish and Shellfish Immunology*. 36:417-427. (Corresponding author, SCI, 2012 Impact Factor: 2.964; Ranking: 3/143 =2%)

Veterinary Sciences).

6. Byadgi O., D. Puteri, Y.H. Lee, J.W. Lee, **T.C. Cheng***. **2014**. The effect of TLR9 agonist CpG oligodeoxynucleotides on intestinal immune response of cobia (*Rachycentron canadum*). Journal of Immunology Research. (Corresponding author, SCI, 2012 Impact Factor: 3.064; Ranking: 62/137 =45% Immunology).

Anti-fish bacterial effect of photocatalytic TiO₂

7. **Cheng, T.C.**, K.S. Yao, N. Yeh, C.I. Chang, H.C. Hsu, Y.T. Chien, C.Y. Chang. **2009**. Visible light activated bactericidal effect of TiO₂/Fe₃O₄ magnetic particles on fish pathogens. Surface and Coatings Technology. 204:1141-1144. (SCI, 2012 Impact Factor: 1.947; Ranking: 3/17=18% Materials Science, Coatings & Films).
8. Yeh N.G., C.H. Wu, **T.C. Cheng***. **2010**. Light-emitting diodes—Their potential in biomedical applications. Renewable & Sustainable Energy Reviews. 14:2161-2166. (*Corresponding author, SCI, 2012 Impact Factor: 5.627; Ranking: 5/81=6% Energy and Fuels).
9. **Cheng T.C.**, K.S. Yao, Y.H. Hsieh, L.L. Hsieh, C.Y. Chang. **2010**. Optimizing preparation of the TiO₂ thin film reactor using the Taguchi method. Materials and Design. 31:1749-1751. (SCI, 2012 Impact Factor:2.913; Ranking: 41/241 = 17% Materials science, Multidisciplinary)
10. **Cheng, T.C.**, K.S. Yao, N. Yeh, C.I. Chang, H.C. Hsu, F. Gonzalez, C.Y. Chang. **2011**. Bactericidal effect of blue LED light irradiated TiO₂/Fe₃O₄ particles on fish pathogen in seawater. Thin Solid Films. 519:5002-5006. (SCI, 2012 Impact Factor: 1.604; Ranking: 5/17=29% Materials Science, Coatings & Films).
11. Yeh,N., Y.C. Lee, C.Y. Chang, **T.C. Cheng***. **2013**. Visible light activated antimicrobial effect of immobilized TiO₂/Fe₃O₄ powder on glass using TiO₂ sol-gel solution. Surface and Coatings Technology. 549:93-97. (*Corresponding author SCI, 2012 Impact Factor: 1.947; Ranking: 3/17=18% Materials Science, Coatings & Films).
12. Yeh N.G., P. Yeh, N. Shih, O. Byadgi, **T.C. Cheng***. **2014**. Applications of light-emitting diodes in researches conducted in aquatic environment. Renewable & Sustainable Energy Reviews. 32: 611–618. (*Corresponding author, SCI, 2012 Impact Factor: 5.627; Ranking: 5/81=13% Energy and Fuels).
13. Kanchanatip E., N. Gridanurak*, **T.C. Cheng***. **2014**. Photocatalytic bactericidal efficiency of Ag doped TiO₂/Fe₃O₄ on fish pathogens under visible light. International

Journal of Photoenergy.

(*Corresponding author, SCI, 2012 Impact Factor: 2.663; Ranking: 10/80=6% Optics).

Lab members:

PhD student

Omkar Byadgi (India)

Master student

Nhat Uyen (Vietnam)

Heather (Swaziland)

Aandy (Indonesia)

Pre-master student

Miguel (Bales)

Undergraduate student

Cindy (Taiwan)

Charles (Swaziland)

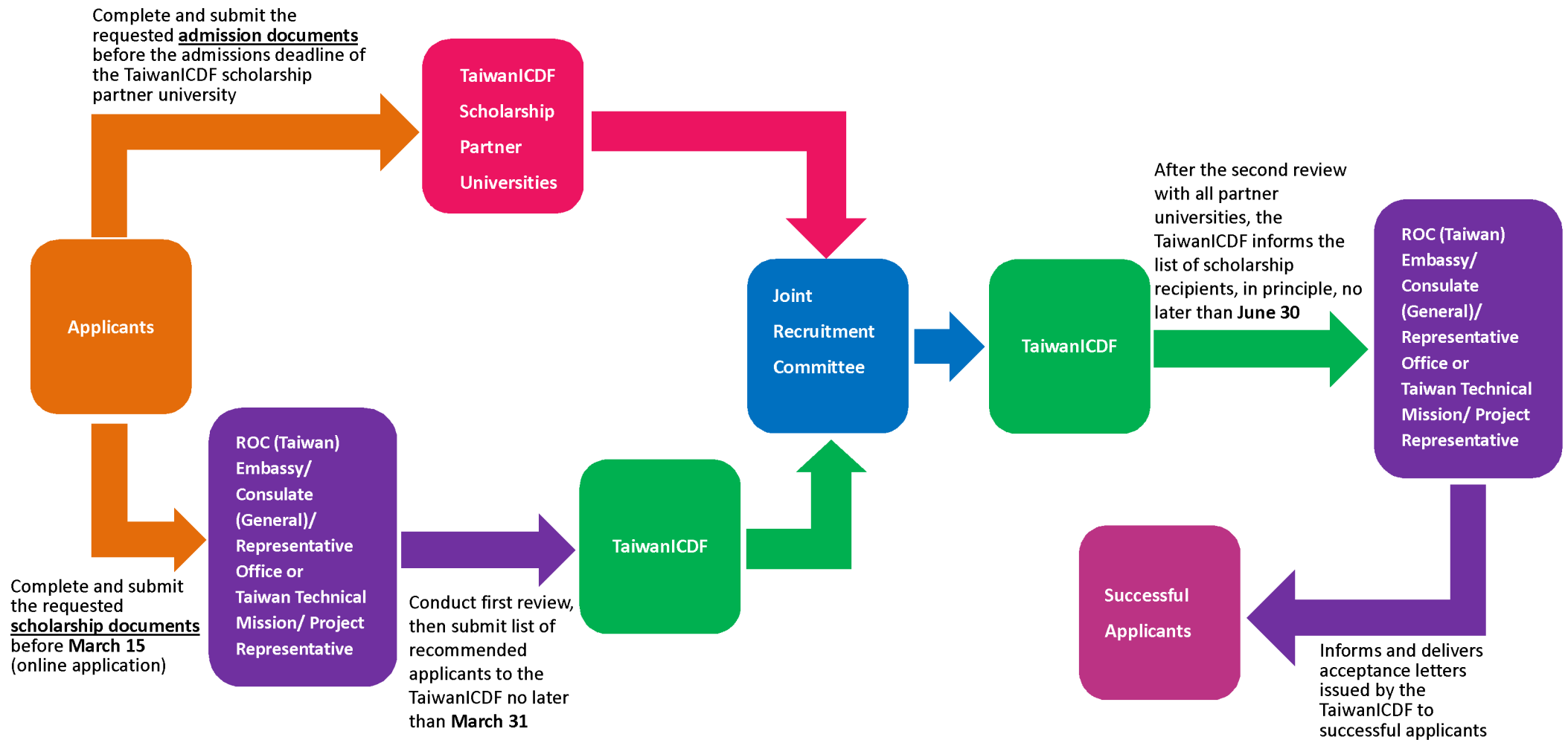
Research assistant

Yu Shan Tsai (Taiwan)

Details of Scholarship Benefits

1. Airfare: The TaiwanICDF arranges economy class, return tickets for the most-direct flights to and from Taiwan.
2. Housing: All students must reside in student dormitories.
3. Tuition fees: The TaiwanICDF covers tuition fees as required by a student's university.
4. Credit fees: Credit fees, which vary with the number of credits registered, are also covered as required by a student's university.
5. Insurance: In addition to the mandatory student safety insurance set by the Ministry of Education, each student must be insured for accident and medical coverage while in Taiwan. The TaiwanICDF covers insurance fees for the entire duration of a student's program.
6. Textbook costs: The costs of textbooks purchased as required by instructors are covered by the TaiwanICDF, subject to the approval of the director of the student's institute.
7. Allowance:
 - (1) Undergraduate Program: Each student receives NT\$12,000 per month as an allowance for food and miscellaneous living expenses. This is deposited into a student's local bank account on a monthly basis.
 - (2) Master's Program: Each student receives NT\$15,000 per month as an allowance for food and miscellaneous living expenses. This is deposited into a student's local bank account on a monthly basis.
 - (3) Ph.D. Program: Each student receives NT\$17,000 per month as an allowance for food and miscellaneous living expenses. This is deposited into a student's local bank account on a monthly basis. A student's host institute may offer to continue paying this monthly allowance for courses exceeding four years; the duration and amount will be determined by the host institute.

Chart of Application Procedures





國立屏東科技大學

National Pingtung University
of Science and Technology

Attach one
recent colorful
Photograph
here
(L4.5xW3.5cm)

Application Form of Admission for Foreign Students

To THE APPLICANT: This application form should be completed with two copies.

Full name	(First name/Middle name/Family name)										Name in Chinese		
Home address						Telephone (+Country Code)					(Home)		
											(Mobile)		
Mailing address	<input type="checkbox"/> Same with home address					E-mail							
Place of birth				Date of birth (dd/mm/yyyy)								Gender <input type="checkbox"/> Male <input type="checkbox"/> Female	
Nationality				Marital status			<input type="checkbox"/> Single <input type="checkbox"/> Married					Number of Children	
Father's name						Mother's name							
Place of birth		Nationality						Place of birth				Nationality	
Passport No.										Religion			
ARC No.										Expiry Date of ARC (dd/mm/yyyy)			

■ Educational Background

Degree	Secondary school	College or University	Graduate school (Master Program)	Graduate school (Ph.D Program)
Name of school				
City and country				
Degree granted				
Graduate month/year				
Major				
Grade(GPA)				

■ Which department or graduate institute do you expect to study at NPUST?

■ Which major or subject do you intent to study at NPUST?

■ When do you intend to begin your study at NPUST?

■ Which degree do you plan to pursue?

☐ Bachelor(four- years) ☐ Master Degree ☐ Doctoral Degree

■ How will you finance the major portion of your study at NPUST?

☐ Personal savings ☐ Scholarship of NPUST

☐ Parental support ☐ Other (please specify) : _____

■ If you have any illness or handicap, please specify.

■ How do you evaluate your Chinese language proficiency?

Listening ☐ Excellent ☐ Good ☐ Average ☐ Poor

Speaking ☐ Excellent ☐ Good ☐ Average ☐ Poor

Reading ☐ Excellent ☐ Good ☐ Average ☐ Poor

Writing ☐ Excellent ☐ Good ☐ Average ☐ Poor

■ How do you evaluate your English language proficiency?

Listening ☐ Excellent ☐ Good ☐ Average ☐ Poor

Speaking ☐ Excellent ☐ Good ☐ Average ☐ Poor

Reading ☐ Excellent ☐ Good ☐ Average ☐ Poor

Writing ☐ Excellent ☐ Good ☐ Average ☐ Poor

■ Chinese language proficiency test

(Please write the grade/level on the line.)

☐ TOCFL(TOP) _____

☐ HSK _____

☐ Others _____

■ English language proficiency test

☐ TOEIC _____

☐ IELTS _____

☐ TOEFL _____

☐ Others _____

■ Write a statement stating your study plans at NPUST (At least 300 words. Use an additional sheet of paper if needed).

■ **Contact person (In case of emergency)**

Name		Telephone number (+Country Code)	
Address			
Relationship with the applicant		Profession	
Contact person's signature		Date	(dd/mm/yyyy)
Applicant's signature		Date	(dd/mm/yyyy)



National Pingtung University of Science and Technology (NPUST)

Guidelines for Awarding Scholarships to Excellent Foreign Students

Amended in the 67th Administration Meeting on June 5, 2003

Amended in the 91st Administration Meeting on Oct 27, 2005

Amended in the 110th Administration Meeting on Aug 1, 2007

Amended in the 125th Administration Meeting on Nov. 6, 2008

Amended in the 146th Administration Meeting on Sep. 16, 2010

Amended in the 157th Administration Meeting on Sep. 21, 2011

1. Purpose:

These guidelines are promulgated to encourage outstanding foreign students to study at NPUST, and to assist them with living on campus without difficulties and successfully completing their studies.

2. Award targets:

All foreign students currently studying at or applying for enrollment in NPUST are qualified. Those who are receiving scholarship(s) from other sources are not eligible.

3. Awarded student qualification, awarded items, and duration of scholarship

3.1 Awards to undergraduates

- A. Application starts from the sophomore year of undergraduate studies.
- B. For freshmen undergrads, barring unusual circumstances or outstanding performance, scholarships will be awarded according to the decisions of the "Foreign Student Scholarship Evaluation Committee".
- C. Awarded items include partially or fully waived tuition and waived miscellaneous fees, or free lodging in the student dormitories of NPUST

3.2 Awards to graduate students

- A. Partially or fully waived tuition, waived miscellaneous fees and credit fees (Students will receive subsidies of the actual credits taken every semester. The maximum number of credits subsidized every semester is twelve.)
- B. Free lodging in the student dormitories of NPUST.
- C. Scholarships will be awarded on a yearly basis. Renewal applications will be evaluated based on student's academic performance. The expected duration of earning a master and a Ph. D degree are 2 and 3 years, respectively. Students who need to study longer than the expected duration are entitled to only partially or fully waived tuition and waived miscellaneous fees, free lodging in dormitories, and subsidies for up to twelve actual credits. Monthly stipend equivalent to that of Taiwan doctoral students can also be awarded to doctoral student for up to one year until the month of applicant's graduation.
- D. The awards for new students shall be decided by the Committee for Admission of Foreign Students, while those for currently enrolled students (including renewal applicants) shall be reviewed and granted by the Scholarship Review Committee, and finally approved by the President of NPUST.

4. Scholarship eligibility requirements:

- 4.1 Students with a foreign nationality
- 4.2 New foreign students are eligible for such application while applying for admission to NPUST.
- 4.3 Currently enrolled foreign students (including renewal applicants) applying for a scholarship are required to submit a copy of their transcript for the previous academic year showing an average of **75 points** or more for undergraduates and **80 points** or more for graduate students. In addition, the

grade of conduct must reach **80 points** or more.

5. Deadline for Application:

- 5.1 For new foreign students: The application must be submitted along with the application for admission to NPUST by **April 30** for the following academic year.
- 5.2 For currently enrolled foreign students (including renewal applicants): Applications must be submitted between **July 20** and **August 5** for the following academic year.

6. Required documents:

- 6.1 For new foreign students: The recruitment regulations were established under NPUST and may be found in the regulations (document #0960021880) posted by the Ministry of Education, Taiwan.
- 6.2 For currently enrolled foreign students (including renewal applicants):
 - A. A copy of their transcript for the previous academic year
 - B. Two recommendation letters written by a class mentor or an academic adviser

7. Application procedures and notices:

- 7.1 New foreign students are required to send the applications to the Office of International Affairs when applying for admission to NPUST.
- 7.2 All applications which are submitted by the currently enrolled international students (including renewal applicants) will be evaluated by the Scholarships Review Committee, and then approved by the President of NPUST. Applicants will be notified the results before August 15 of each year.

8. Obligations of awarded international students

- 8.1 Students who qualify for admission and scholarships at NPUST and are awarded waived miscellaneous fees, credit fees and stipends will be given school service assignments weekly by their departments or by the Office of International Affairs.
- 8.2 A feedback report on the quality of the student's school service will be appended to the scholarship's application the following year.

9. Mandarin Certificate

Scholarship students who are non-native speakers of Chinese are encouraged to attempt to pass the basic level of Test of Chinese as a Foreign Language (TOCFL, formerly TOP) before graduation. Those who pass could apply to the reward according to the referring regulation of NPUST.

10. Sources of Funding

NPUST annually allocates a portion of its income from the collection of tuition and miscellaneous fees, funds from the Ministry of Education, and funding from its university foundation or other related resources to scholarships for foreign students.

11. These guidelines become validated after the approval of the Administrator Meeting and the authorization of the President of NPUST.

These guidelines are adopted in Chinese, which shall prevail in case of any discrepancy between the English translation and the Chinese original.

醫院標誌

Hospital's
Logo

健康檢查證明應檢查項目表 (乙表)

(醫院名稱、地址、電話、傳真機)

ITEMS REQUIRED FOR HEALTH CERTIFICATE (Form B)

(Hospital's Name, Address, Tel, FAX)

檢查日期 ____/____/____

(年)(月)(日)

____/____/____

(M)(D)(Y)

Date of Examination

基本資料 (BASIC DATA)

姓名 : _____
Name

性別 : ☐男 Male ☐女 Female
Sex

身份證字號 : _____
ID No.

護照號碼 : _____
Passport No.

出生年月日 : ____ / ____ / ____
Date of Birth

國籍 : _____
Nationality

年齡 : _____
Age

聯絡電話 : _____
Phone No.

照片

Photo

實驗室檢查 (LABORATORY EXAMINATIONS)

A. HIV 抗體檢查 (Serological Test for HIV Antibody) :

☐陽性 (Positive) ☐陰性 (Negative) ☐未確定 (Indeterminate)

a. 篩檢 (Screening Test) : ☐EIA ☐PA ☐其他 (Others) _____

b. 確認 (Confirmatory Test) : ☐Western Blot ☐其他 (Others) _____

☐兒童 15 歲以下免驗 (Not required for children under 15 years of age)

B. 胸部 X 光檢查肺結核 (Chest X-Ray for Tuberculosis) :

X 光發現 (Findings) : _____

判定 (Results) :

☐合格 (Passed) ☐疑似肺結核 (TB Suspect) ☐無法確認診斷 (Pending) ☐不合格 (Failed)

(經臺灣健檢醫院判定為疑似肺結核或無法確認診斷者，得至指定機構複驗；但所在縣市無指定機構者，得至鄰近醫院之胸腔科門診複檢。) (Those who are determined to be TB suspects or have a pending diagnosis by the designated hospital in Taiwan must visit the referred institution for further evaluation.)

☐孕婦或兒童 12 歲以下免驗 (Not required for pregnant women or children under 12 years of age)

C. 腸內寄生蟲 (含痢疾阿米巴等原蟲) 糞便檢查 (採用離心濃縮法檢查) (Stool examination for parasites includes *Entameba histolytica* etc.) (centrifugal concentration method) :

☐陽性，種名 (Positive, Species) _____ ☐陰性 (Negative)

☐其他可不予治療之腸內寄生蟲 (Other parasites that do not require treatment) _____

☐兒童 6 歲以下或來自特定地區者免驗 (Not required for children under 6 years of age or applicants from designated areas as described in Note 6)

D. 梅毒血清檢查 (Serological Test for Syphilis) :

檢驗 (Tests) : a. ☐RPR 或 ☐VDRL _____ b. ☐TPHA/TPPA _____

c. ☐其它 (Other) _____

判定 (Results) : ☐合格 (Passed) ☐不合格 (Failed)

☐兒童 15 歲以下免驗 (Not required for children under 15 years of age)

E. 麻疹及德國麻疹之抗體陽性檢驗報告或預防接種證明 (proof of positive measles and rubella antibody titers or measles and rubella vaccination certificates) :

a. 抗體檢查 (Antibody test)

麻疹抗體 measles antibody titers ☐陽性 Positive ☐陰性 Negative ☐未確定 (Equivocal)

德國麻疹抗體 rubella antibody titers ☐陽性 Positive ☐陰性 Negative ☐未確定 (Equivocal)

b. 預防接種證明 Vaccination Certificates

(含接種日期、接種院所及疫苗批號；接種日期與出國日期應至少相隔兩週。)

(The Certificate should include the date of vaccination, the name of administering hospital or clinic and the batch no. of vaccine; the date of vaccination should be at least two weeks prior to going abroad)

☐麻疹預防接種證明 Vaccination Certificates of Measles

☐德國麻疹預防接種證明 Vaccination Certificates of Rubella

c. ☐經醫師評估，有接種禁忌者，暫不適宜接種。(Having contraindications, not suitable for vaccination)

漢生病檢查 (EXAMINATION FOR HANSEN'S DISEASE)

全身皮膚視診結果 (Skin Examination)

☐正常 Normal

☐異常 Abnormal : ☐非漢生病 (not related to Hansen's disease) : _____

☐漢生病(疑似個案須進一步檢查)(Hansen's disease suspect needs further exam)

a. 病理切片 (Skin Biopsy) : _____

b. 皮膚抹片 (Skin Smear) : ☐陽性 (Finding bacilli in affected skin smears)

☐陰性 (Negative)

c. 皮膚病灶合併感覺喪失或神經腫大 (Skin lesions combined with sensory loss or enlargement of peripheral nerves) ☐有 (Yes) ☐無 (No)

判定 (Results) : ☐合格 (Passed) ☐不合格 (Failed)

☐來自特定地區者免驗 (Not required for applicants from designated areas as described in Note 6)

備註 (Note) :

一、本表供外籍人士、無戶籍國民、大陸地區人民及香港澳門居民申請在臺灣居留或定居時使用。This form is for **residence application**.

二、兒童 6 歲以下免辦理健康檢查，但須檢具預防接種證明備查(年滿 1 歲以上者，至少接種 1 劑麻疹、德國麻疹疫苗)。A child under 6 years old is not necessary to have laboratory examination, but the certificate of vaccination is necessary. Child age one and above should get at least one dose of measles and rubella vaccines.

三、懷孕婦女及兒童 12 歲以下免接受「胸部 X 光檢查」；懷孕婦女於產後仍應補照胸部 X 光。Pregnant women and children under 12 years of age are exempted from chest X-ray examination. Pregnant women should undergo chest X-ray after the child's birth.

四、申請免除胸部 X 光檢查之適用對象：申請人限來自結核病盛行率低於十萬分之三十的國家，並檢具由精神科醫師出具申請人在心理上不適進行胸部 X 光檢查之診斷證明書，經行政院衛生署疾病管制局審核通過者，始得免除此項檢測。

五、兒童 15 歲以下免接受「HIV 抗體檢查」及「梅毒血清檢查」。A child under 15 years old is not necessary to have Serological Test for HIV or Syphilis.

六、居住於美國、加拿大、歐洲、紐西蘭、澳洲、日本、南韓、香港、澳門、新加坡及以色列等地區或國家之申請者，得免驗腸內寄生蟲糞便檢查及漢生病檢查。Applicants living in USA, Canada, Europe, New Zealand, Australia, Japan, South Korea, Hong Kong, Macao, Singapore or Israel are not required to undergo a stool examination for parasites or an examination for Hansen's disease.

七、漢生病檢查為全身皮膚檢查，受檢者可穿著內衣內褲，並由親友或女性醫護人員陪同受檢。檢查時逐步分部位受檢，避免一次脫光全身衣物，維護受檢者隱私。Hansen's disease examination refers to careful examination of the entire body surface, which should be done with courtesy and respect to the applicant's privacy. During the examination, the applicant is allowed to wear underwear and be accompanied by a friend or female medical personnel. Hospitals or clinics have the responsibilities to protect the privacy of the applicant and the examination should be done step by step. Hence, taking off all clothes at the same time should be avoided.

八、根據以上對_____先生/女士/小姐之檢查結果為

☐合格 ☐不合格 ☐須進一步檢查

Result : According to the above medical report of Mr./Mrs./Ms. _____, he/she

☐has passed the examination ☐has failed the examination ☐needs further examination.

負責醫檢師簽章 :
(Chief Medical Technologist)

(Name & Signature)

負責醫師簽章 :
(Chief Physician)

(Name & Signature)

醫院負責人簽章 :
(Superintendent)

(Name & Signature)

日期 (Date) : _____/_____/_____

本證明三個月內有效 (Valid for Three Months)

附錄：健康檢查證明不合格之認定原則

檢查項目	不合格之認定原則
人類免疫缺乏病毒抗體檢查	一、人類免疫缺乏病毒抗體檢驗經初步測試，連續二次呈陽性反應者，應以西方墨點法(WB)作確認試驗。 二、連續二次(採血時間需間隔三個月)西方墨點法結果皆為未確定者，視為合格。
胸部X光檢查	一、活動性肺結核(包括結核性肋膜炎)視為「不合格」。 二、非活動性肺結核視為「合格」，包括下列診斷情形：纖維化(鈣化)肺結核、纖維化(鈣化)病灶及肋膜增厚。
腸內寄生蟲糞便檢查	一、經顯微鏡檢查結果為腸道蠕蟲蟲卵或其他原蟲類如：痢疾阿米巴原蟲(<i>Entamoeba histolytica</i>)、鞭毛原蟲類，纖毛原蟲類及孢子蟲類者為不合格。 二、經顯微鏡檢查結果為人芽囊原蟲及阿米巴原蟲類，如：哈氏阿米巴(<i>Entamoeba hartmanni</i>)、大腸阿米巴(<i>Entamoeba coli</i>)、微小阿米巴(<i>Endolimax nana</i>)、嗜碘阿米巴(<i>Iodamoeba butschlii</i>)、雙核阿米巴(<i>Dientamoeba fragilis</i>)、唇形鞭毛蟲(<i>Chilomastix mesnili</i>)等，可不予治療，視為「合格」。 三、妊娠孕婦如為寄生蟲檢查陽性者，視為合格；請於分娩後，進行治療。
梅毒血清檢查	一、以 RPR 或 VDRL 其中一種加上 TPHA(TPPA)之檢驗，如檢驗結果有下列情形任一者，為「不合格」： (一) 活性梅毒：同時符合條件(一)及(二)、或僅符合條件(三)者。 (二) 非活性梅毒：僅符合條件(二)者。 二、條件： (一) 臨床症狀出現硬下疳或全身性梅毒紅疹等臨床症狀。 (二) 未曾接受梅毒治療或病史不清楚者，RPR(+)或 VDRL(+), 且 TPHA (TPPA)=1:320 以上(含320)。 (三) 曾經接受梅毒治療者，VDRL 價數上升四倍。 三、梅毒血清檢查陽性者，檢具治療證明，視為合格。
麻疹、德國麻疹	麻疹、德國麻疹抗體檢查結果為陰性(或未確定者)，且未檢具於抗體檢查後之麻疹、德國麻疹預防接種證明者，視為不合格。但經醫師評估有麻疹、德國麻疹疫苗接種禁忌者，視為合格。

Appendix: Principles in determining the health status failed

Test Item	Principles on the determination of failed items
Serological Test for HIV Antibody	1. If the preliminary testing of the serological test for HIV antibody is positive for two consecutive times, confirmation testing by WB is required. 2. When findings of two consecutive WB testing (blood specimens collected at an interval of three months) are indeterminate, this item is considered qualified.
Chest X-ray	1. Active pulmonary tuberculosis (including tuberculous pleurisy) is unqualified. 2. Non-active pulmonary tuberculosis including calcified pulmonary tuberculosis, calcified foci and enlargement of pleura, is considered qualified.
Stool Examination for Parasites	1. By microscope examination, cases are determined unqualified if intestinal helminthes eggs or other protozoa such as <i>Entamoeba histolytica</i> , flagellates, ciliates and sporozoans are detected. 2. <i>Blastocystis hominis</i> and Amoeba protozoa such as <i>Entamoeba hartmanni</i> , <i>Entamoeba coli</i> , <i>Endolimax nana</i> , <i>Iodamoeba butschlii</i> , <i>Dientamoeba fragilis</i> , <i>Chilomastix mesnili</i> found through microscope examination are considered qualified and no treatment is required. 3. Pregnant women who have positive result for parasites examination are considered qualified and please have medical treatment after the child's birth.
Serological Test for Syphilis	1. After testing by either RPR or VDRL together with TPHA(TPPA), if cases meet one of the following situations are considered failing the examination. (1) Active syphilis: must fit the criterion (1) + (2) or only the criterion (3). (2) Inactive syphilis: only fit the criterion (2). 2. Criterion: (1) Clinical symptoms with genital ulcers (chancres) or syphilis rash all over the body. (2) No past diagnosis of syphilis, a reactive nontreponemal test (i.e., VDRL or RPR), and TPHA(TPPA)=1:320↑(including 1:320) (3) A past history of syphilis therapy and a current nontreponemal test titer demonstrating fourfold or greater increase from the last nontreponemal test titer. 3. Those that have failed the serological test for syphilis but have submitted a medical treatment certificate are considered passing the examination.
Measles, Rubella	The item is considered unqualified if measles or rubella antibody is negative (or equivocal) and no measles, rubella vaccination certificate issued after the antibody test is provided. Those who having contraindications, not suitable for vaccinations are considered qualified.



國立屏東科技大學

◎Name of University: National Pingtung University of Science and Technology (NPUST/Ping Tech)

Address: No.1 Shuefu Road, Neipu 91201, Pingtung, Taiwan (R.O.C.)

Tel: +886-8-7740651 Fax: +886-8-7740208 Website: <http://www.npust.edu.tw>

◎History

- 1924: Kaohsiung State Pingtung Extension School of Agriculture was founded and has undergone several times of reforms.
- 1997: National Pingtung University of Science and Technology

◎Introduction

In the past 5 years, NPUST's academic research achievements comprise targeting for one of the top 15 universities on the cumulative points of weighted impact factor based on WOS journals, in the fields of agriculture sciences as well as ecology and environment sciences. NPUST is also on the list of top 15 universities in the total number of publications and citation frequencies in the fields of agriculture sciences, plant and animal sciences, immunology and microbiology, ecology and environment sciences, and earth sciences. Furthermore, NPUST has successively been granted with funding for the promotion of Teaching Excellence by the Ministry of Education for years. NPUST is devoted to improving teaching quality, participating in research competitions, and helping students achieve excellence. Known for its tropical agriculture, NPUST has received distinction in teaching, research, and building human capacity. Based on its strength in tropical agriculture and other areas, NPUST has acquired a sterling reputation both nationally and internationally. In order to take advantage of NPUST's strength in tropical agriculture and to make greater contribution to the society, the university promoted "product oriented research" (POR). NPUST has established links with more than 154 world-renowned universities through various academic exchanges, distance education, faculty and student exchanges, resources sharing, and joint research. There are about 600 international students currently enrolled at NPUST. NPUST projects to position itself as one of the world's leading academic institutions.

◎Recruitment

1. Academic Programs & Language of Instruction

※ College of Agriculture

- Graduate Institute of Bioresources/PhD. (Chinese/English)
- Department of Plant Industry/Bachelor; Master; PhD. (Chinese/English)
- Department of Food Science/Bachelor; Master; PhD. (Chinese/English)
- Department of Forestry/Bachelor; Master (Chinese)
- Department of Aquaculture/ Bachelor; Master; PhD. (Chinese/English)
- Department of Animal Science/Bachelor; Master (Chinese)
- Department of Plant Medicine/Bachelor; Master (Chinese)
- Department of Wood Science and Design/Bachelor; Master (Chinese)
- Department of Biological Science and Technology/Bachelor; Master (Chinese/English)

※ College of Veterinary Medicine

- Department of Veterinary Medicine/Bachelor; Master; PhD. (Chinese/English)
- Graduate Institute of Animal Vaccine Technology/Master (Chinese)
- Graduate Institute of Wildlife Conservation/Master (Chinese)

※ College of Engineering

- Department of Environmental Science and Engineering/Bachelor; Master; PhD. (Chinese/English)
- Department of Mechanical Engineering/Bachelor; Master (Chinese)
- Department of Civil Engineering/ Bachelor; Master; PhD. (Chinese/English)
- Department of Soil and Water Conservation/ Bachelor; Master (Chinese)
- Department of Vehicle Engineering/Bachelor; Master (Chinese)
- Department of Biomechanics Engineering/Bachelor; Master (Chinese)
- Graduate Institute of Materials Engineering/Master (Chinese)

※ College of Management

- Graduate Institute of Landscape Architecture and Recreation Management/Master (Chinese)
- Graduate Institute of Management of Innovation and Technology/Master (Chinese)
- Department of Agribusiness Management/Bachelor; Master (Chinese)
- Department of Management Information Systems/Bachelor; Master (Chinese)
- Department of Industrial Management/Bachelor; Master (Chinese)
- Department of Business Administration/Bachelor; Master (Chinese)
- Department of Fashion Design and Management/Bachelor; Master (Chinese)
- Department of Hotel and Restaurant Management/Bachelor; Master(Chinese)

● International Bachelor's Degree Program in Finance (English)

※ College of Humanities and Social Sciences

- Graduate Institute of Vocational and Technical Education/Master (Chinese)
- Graduate Institute of Hakka Cultural Industry/Master (Chinese)
- Department of Social Work/Bachelor; Master (Chinese)
- Department of Modern Languages/Bachelor; Master (Chinese)
- Department of Recreation Sports and Health Promotion/Bachelor; Master (Chinese)
- Department of Child Care/Bachelor; Master (Chinese)

※ International College

- Department of Tropical Agriculture and International Cooperation/Bachelor; Master; PhD. (English)
- International Master Program in Food Science (English)
- International Master Program in Soil and Water Engineering (English)
- International Master Program in Agribusiness Management (English)
- Chinese Language Center

2. Tuition and Fees

College/Departments	Average Fee/Year (USD)
Agriculture; Veterinary Medicine; International Studies	\$3,365-4,210
Engineering	\$3,520-4,245
Humanities and Social Science; Management	\$3,200-4,080

3. Scholarship

Content / Title	Coverage/Year (USD)	Eligibility
NPUST Scholarship to	Bachelor: Free tuition fee or free accommodations;	Bachelor: Sophomore, Junior and Senior; Average grades 75%/year or above

Content / Title	Coverage/Year (USD)	Eligibility
Excellent Foreign Students	Master & PhD: Full scholarship (tuition fee-waived, maximum 12 credits fee-waived/semester, on-campus dormitory fee-waived, with monthly stipend) or partial scholarship (tuition fee-waived, maximum 12 credits fee-waived/semester, on-campus dormitory fee-waived, without monthly stipend)	Master: Year 1 to 2; Average grades 80%/year or above; TOEFL paper 520 points or above PhD: Year 1 to 3 or 4; Average grades 80%/year or above; TOEFL paper 520 points or above (http://oia.npust.edu.tw/en/International_scholarship)

4. Admission Requirements

Submission Dates for Application	Evaluation
1 st January to 31 st March	1. Application form and other required materials (http://oia.npust.edu.tw/International_Application%20) 2. Telephone interview (optional)

5. Dormitory

Dorm Type	Number of Beds	Room Type	Fee/Year (USD)
Male Dormitory	228	4 borders/room	\$725
Female Dormitory	208	4 borders/room	\$725

6. Living Cost:

About \$290USD-\$430USD/month

7. Chinese Language Center

※ General Course

Terms	Class Duration	Total Hours	Tuition(approx.) (USD)	Application Deadline
Fall Semester	Sep. ~ Jan.	270	\$1,000	Aug. 15 th
Spring Semester	Feb. ~ Jun.	270	\$1,000	Jan. 15 th

※ Short-Term Program

Terms	Class Duration	Total Hours	Tuition Fees (approx.) (USD)	Application Deadline
Summer Intensive Course	Jul. ~ Aug	72	\$310	July
Semester Course (Spring Semester)	Feb.~ Jun.	30	\$130	February
Semester Course (Fall Semester)	Sep.~ Jan.	30	\$130	September

8. Contact Information:

※ Office of International Affairs

Website: <http://oia.npu.edu.tw>

Facebook: <https://www.facebook.com/npuoia>

Division:

● International Students Affairs

TEL: +886-8-7703202 ext 6216

● International cooperation

TEL: +886-8-7703202 ext 6219

● Overseas Chinese Students Affairs

TEL: +886-8-7703202 ext 6280

Fax: +886-8-7740208

E-mail: international@mail.npu.edu.tw

※ Chinese Language Center

Website: <http://clc.npu.edu.tw>

TEL: +886-8-7703202 ext 7715

E-mail: clc@mail.npu.edu.tw

9. Application Procedure:

※ Regular Program

(1) Application online (Application system will be open on January to March.

Please check our website to log in: <http://oia.npu.edu.tw>.)

(2) Required documents (in English or in Chinese):

A. Application form

B. Study plan (at least 300 words)

C. Research proposal (master or doctoral program's applicant only) (optional)

D. Authenticated diploma

E. Authenticated transcript

F. Two recommendation letters (by different writers)

G. Financial statement (at least \$3,000USD)

H. English certificate

(ex. TOEFL paper/TOEFL CBT/TOEFL IBT/IELTS/TOEIC)

I. Mandarin certificate

(Required when applying for bachelor's program of other colleges except international college. Ex. TOCFL or HSK.)

J. Health certificate (Form B)

K. Other certificates (optional)

(3) Application fee: Free application

(4) Any question, please email to “international@mail.npu.edu.tw”.

