

# 國家衛生研究院 110 年度 整合性醫藥衛生科技研究計畫

## 申 請 作 業 手 冊

徵求計畫類型： IRG、CDG

請申請人擇一計畫類型及符合之研究重點項目撰寫計畫申請書。申請截止期限後各計畫書無法進行補正作業，請務必依規定撰寫，以免因疏漏處被退件或影響審查結果。另請務必儘早於計畫申請系統撰寫完成，並點選「計畫送件」鍵，以完成計畫申請作業後取得送件編號 Serial Number，並預覽列印確認整份計畫書符合各項規定，如有逾時概不受理。

（與去年版本不同之規定，以斜體字呈現）



國 家 衛 生 研 究 院  
學 術 發 展 處 編 印  
中 華 民 國 109 年 元 月

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# I、徵求說明

## 110 年度整合性醫藥衛生科技研究計畫徵求說明

請依欲申請之計畫類型選擇符合該類型之研究重點撰寫計畫申請書。申請截止期限後恕無補正作業，請務必依規定撰寫，以免因疏漏處被退件或影響審查結果。另請務必儘早於計畫申請系統撰寫完成，並點選「計畫送件」鍵，以完成計畫申請作業後取得送件編號 Serial Number，並「預覽整份」以確認計畫書符合各項規定，如有逾時概不受理。

### 壹、 目標

- 一、 以整合性之醫藥衛生科技研究，解決國人重要健康問題。
- 二、 結合國內醫藥衛生研究機構，發展具特色之研究，提昇我國醫藥衛生研究水準。

### 貳、 計畫類型

本次徵求個人型計畫，包括「創新研究計畫 (Innovative Research Grant, IRG)」及「研究發展獎助計畫 (Career Development Grant, CDG)」。*IRG* 及 *CDG* 申請須知 (含：主持人資格、申請書表及撰寫說明... 等) 各有不同，詳請參閱本冊第 II 部分，請擇一計畫型態提出申請，計畫型態一經選定後不得變更，亦不得更換計畫主持人。

**台灣醫衛重要主題研究計畫(Thematic Research Grant for Important Health Issues of Taiwan, TRG)**，以 2 年徵求 1 次為原則，本年度不受理申請。

### 參、 申請機構資格

計畫之申請應由申請機構以正式公函向本院提出申請，以個人名義申請者概不接受。符合申請資格之機構如下：

- 一、 國內公私立大學院校。
- 二、 國內具學術研究性質之公立機關(構)及財團法人。
- 三、 經衛生福利部公告醫院評鑑及教學醫院評鑑均為合格以上之醫療機構。

註：本院(含合聘人員)及衛生福利部附屬機構人員(不含衛生福利部所屬醫院)不得擔任計畫主持人提出申請。

#### 肆、 研究重點

整合性醫藥衛生研究計畫強調問題及任務導向，並希冀能與本院院內研究相輔相成，以有效解決國人重要醫藥衛生問題。本年度徵求研究重點依計畫類型分列如下，請依所申請計畫選擇符合該類型計畫之研究重點，並於計畫申請書首頁加以註明。

##### 一、 台灣醫衛重要主題研究計畫(*Thematic Research Grant for Important Health Issues of Taiwan, TRG*)：

TRG 計畫以 2 年徵求 1 次為原則，本年度不受理申請。

##### 二、 個人型計畫，包括創新研究計畫(*Innovative Research Grant, IRG*)及研究發展獎助計畫(*Career Development Grant, CDG*)：

為鼓勵創新研究並吸引優秀研究人員提出計畫申請，個人型計畫之研究重點包含 10 項(但不另區分子題)，申請人應就研究重點深入研究國人重要疾病之成因、診斷、治療及預防，或進行醫療保健及衛生政策、制度之研究，以解決各項醫藥衛生相關問題，徵求重點如下：

1. Cancer research
2. Cardiovascular and metabolic disorders
3. Infectious diseases
4. Mental/neurological disorders and addiction
5. Immunity and inflammation
6. Aging
7. Biomedical engineering
8. Health policy and social welfare
9. Environmental health
10. Others

針對前述 IRG 及 CDG 各項研究重點，申請人可依所申請計畫類型之徵求內容說明，選擇符合之主題逕自提出計畫申請，另亦歡迎與本院相關研究領域之研究人員<sup>註</sup>實質合作、一起提出計畫申請，期使雙方的研究成果能相輔相成，以顯現學術價值並有效達成計畫目標。而無論是否有本院

研究人員實質參與合作併同申請院內配合款，審查時各申請案一致著重在是否符合研究重點及該計畫之學術價值(scientific merit)。

實質參與 IRG 或 CDG 計畫之本院研究人員得視研究需要併同申請院內配合款以 100 萬元為上限，每年度由本院院內研究經費提供 600 萬元額度供本院實質參與 IRG 或 CDG 計畫之研究人員申請，預計漸進達到每年 2,000 萬元總額(含新增及延續計畫)之研究經費配合款。

註：

1. 本院編制內之專任研究人員(不含合聘、兼任及借調至其他機構之人員)若欲申請 IRG、CDG 計畫之院內配合款，須於計畫書中撰寫本院負責執行之計畫內容並編列經費，且必須是實質參與合作，而非僅是提供諮詢、研究材料或實驗動物等之合作方式；惟本院同一研究人員之 TRG 子計畫經費或 IRG、CDG 之院內配合款合計以 1 件為限(含申請與執行中之計畫)，若本院研究人員已有執行中之 TRG 子計畫或 IRG、CDG 計畫配合款、或此次已有 1 件申請案提出申請者，切勿再申請其他 IRG、CDG 配合款，以免影響計畫審查及主持人權益。
2. 本院各研究單位之人員專長及聯絡訊息等，請參閱本院全球資訊網(<http://www.nhri.edu.tw>)各研究單位網頁介紹。

#### 伍、 聯絡單位及收件截止日期

計畫申請採全面線上作業(含計畫書本體及相關附件)，僅機構公函、CDG 推薦信及彩色圖片(有需要者)以紙本送件，申請相關規定請詳閱本手冊；另「整合性醫藥衛生科技研究計畫線上作業系統」(網址：<https://erad.nhri.edu.tw>)操作說明請逕上網參閱。本院學術發展處將於 109 年 1 月中旬辦理計畫徵求暨線上申請系統操作說明會，詳情請參閱本處之最新消息公告。如有申請作業疑義，請洽本院學術發展處。

**※注意：**為免網路壅塞，請提早準備計畫書並登錄系統填寫，如有任何申請疑問請隨時來電洽詢；惟，如係個人之系統操作困難，請務必於計畫申請截止前一上班日下午 4 時前來電洽詢，避免因操作疑難排解不及而誤時，恕無法受理逾時之申請案。

- 收件地址：苗栗縣竹南鎮 35053 科研路 35 號(行政大樓三樓學發處)，請於信封上加註「申請 110 年度整合性計畫」字樣，以利收件辨認。
- 聯絡電話：(037) 206-166 分機 33306~07、33309、33311~13、33315~16



- 傳真：(037) 580-762
  - 網址： <http://www.nhri.edu.tw/pdnews>
- 【國衛院學術發展處最新消息公告】**

■ 申請作業手冊索取方式：

1. E-mail：extra@nhri.edu.tw（請註明姓名、職稱、機構、單位、地址、電話、傳真及 e-mail）。
2. 已有本院整合性醫藥衛生科技研究計畫線上作業系統帳號及密碼者，請至 <https://erad.nhri.edu.tw> 點選「索取紙本申請作業手冊」連結，登錄帳號及密碼即可完成手冊索取作業。
3. 電話索取：(037) 206-166 分機 33302

註：為響應環保愛護地球資源，另於下列網頁提供申請作業手冊完整內容電子檔供下載，請多加利用。

1. 計畫線上作業系統(網址：<https://erad.nhri.edu.tw>)。
2. 本院學術發展處最新消息公告(網址：<http://www.nhri.edu.tw/pdnews>)。

■ 收件截止日期：

文件名稱	截止日期(收件方式)
計畫書本體 <sup>註1</sup> 、一般附件 <sup>註2</sup> 、論文著作	109 年 3 月 31 日下午 4 時(系統線上收件)
機構公函 <sup>註3</sup> 、CDG 推薦信 3 封 <sup>註2</sup> 、彩色圖片乙式 5 份(如有需要者)	109 年 4 月 10 日下午 4 時(紙本收件)

註：

1. 若因機構內部作業所需，IRG、CDG 之 FORM SECTION 11 - Certificate of Agreement for the Application 之「機構首長」欄位可暫留空白免簽名，但其他研究人員之欄位必須完成簽名並上傳至系統；待整份計畫書點選「計畫送件」鍵並取得送件編號 Serial Number 後，另將該頁以紙本補呈送機構首長簽名後，於 109 年 4 月 10 日前併同公函送達。
2. 如有 CDG 推薦信補件者，或各計畫若在申請截止日期前僅提供已送審查中之證明文件者，其人體試驗審查同意函、動物實驗審查同意函、基因重組實驗審查同意函、感染性生物材料試驗審查同意函皆應於 109 年 7 月 1 日前補齊(紙本補件)。
3. 申請機構應在確認申請人符合申請資格後，於 109 年 4 月 10 日前來函辦理申請作業。

4. 申請截止後，計畫若有突破性的研究成果、出版新的論文著作等嶄新的研究資料，可於 **109 年 7 月 1 日**前提供(紙本收件)，惟以二頁 A4 紙張為限(單面列印)。

※注意：本院學術發展處辦公地點位在本院竹南院區行政大樓三樓，紙本收件之資料無論係透過郵寄、快遞或親自送件者，切勿送至本院台北辦事處或其他單位。另因本院竹南院區範圍較廣，有多處大門入口（訪客請由 2 號或 3 號門進出，1 號門禁止通行），加以實施人員出入管制（需換證件方得進入），故請務必提早送件(請預留申請機構彙整作業所需時間)，以免誤時而遭退件。

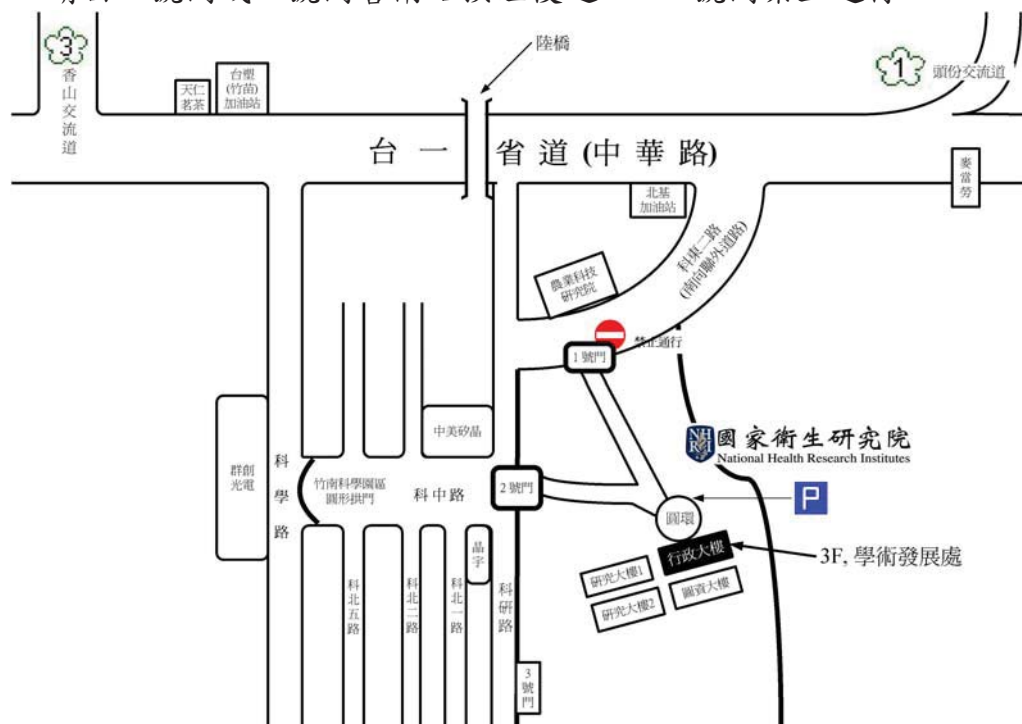
進入院區後請將文件送至行政大樓三樓學發處，如有交付郵寄或快遞送件者，亦請預留投遞所需時間，並注意：收件截止日期係以送達時間為準。



## ■ 國家衛生研究院學術發展處交通指引

地址：35053 苗栗縣竹南鎮科研路 35 號

請由 2 號門或 3 號門警衛站換證後進入，1 號門禁止通行。



### (一) 開車

自行開車者，請由 2 號門或 3 號門警衛站換證進入後，將車輛停放於戶外停車格線。

國道	路線指引
北二高路線 (由 2 號門 進入院區)	自香山交流道下→左轉接台一省道(中華路)→經天仁茗茶至竹苗加油站→右轉科學路至「新竹科學園區竹南基地」(竹南科學園區)入口→左轉進科中路→往前直行→國衛院 2 號門進入院區
中山高路線 (由 2 號或 3 號門進 入院區，惟 2 號門 較靠近行政大樓)	自頭份交流道下→右轉接台一省道(中華路)左轉科東二路→至農業科技研究院→左轉進入科研路→國衛院 2 號門或 3 號門進入院區

### (二) 火車

搭乘至竹南火車站後，搭計程車至院區。(約 15 分鐘，費用約 200 元)

### (三) 高鐵

搭乘至新竹高鐵車站後，搭計程車至院區。(需視路況而定，約 40 分鐘，費用約 600 元)

搭乘至苗栗高鐵車站後，搭高鐵快捷公車至院區。(高鐵快捷公車乘車資訊詳見台灣高鐵網站，惟因車次不多，務請預先查詢以免久候，路程視路況約 45 分鐘)

### (四) 國道客運

搭乘至頭份站(較近本院)或竹南站後，搭計程車至院區。(約 10-15 分鐘，費用約 150-200 元)

## II、個人型計畫申請須知

# 個人型計畫申請須知

## 壹、計畫類型

個人型計畫之類型分為：「創新研究計畫」(Innovative Research Grant: IRG)及「研究發展獎助計畫」(Career Development Grant: CDG)二種，「創新研究計畫」係為鼓勵具獨立研究能力者，而「研究發展獎助計畫」則為鼓勵新進研究人員。

### 一、創新研究計畫

創新研究計畫乃為鼓勵符合研究重點之研究，計畫主持人應具獨立研究能力，且其研究內容對國民健康有重要性。

#### 注意事項：

#### 「傑出創新研究計畫；Outstanding Innovative Research Grant」(OIRG)之設置

為求獎勵特別傑出之研究人員，本院於計畫審查過程中，遴選創新研究計畫之延續計畫申請案(Renewal Application)中評分極高(至少在當年度 IRG 申請案之前 5%)，有潛力成為國內外該領域領導者的計畫主持人，為國家衛生研究院傑出創新研究計畫主持人。此項候選人須曾經執行過 IRG，由各分組審查委員會依據上列原則推薦，或由學術諮議會常設委員特別推薦，由學術諮議會選定之。獲選定計畫之前三年預算依審查結果建議執行，俟後依下列時機提出 OIRG 展延期程申請書，經審查評估進度成果報告及經費編列後，總計畫期程得延長為 7 年，每年經費上限漸進提高(gradually increased budget)，以不超過 600 萬元為原則。

- (一)原核定全程為 3 年之創新研究計畫，於計畫執行第二年時提出 OIRG 展延期程申請書。
- (二)原核定全程為 4 或 5 年之創新研究計畫，於計畫執行第三年時提出 OIRG 展延期程申請書。

### 二、研究發展獎助計畫

研究發展獎助計畫執行期間，主持人可依相關規定主持或參與其他研究計畫(自 96 年 1 月 1 日起取消原計畫執行第一至第三年期間，主持人不得同時再擔任其他任何研究計畫的主持人、子計畫或核心計畫負責人之規定，惟計畫主持人仍以申請及主持一項整合性醫藥衛生科技研究計畫為限)。

#### 注意事項：

- (一)計畫申請書 FORM SECTION 11 - Certificate of Agreement for the Application 中須由部門主管或實驗室負責人及機構首長簽署證明，於計畫通過後本獎助

計畫主持人將有適當之實驗室空間可執行該項研究計畫，且在該計畫執行過程中會給予適當的支援，並減少其非學術活動之工作，以協助其完成計畫。

- (二)本獎助計畫須檢附 3 封英文推薦信函(紙本寄達)，其中 1 封須由取得博士學位或最高學歷之指導教授所撰寫，如未能取得該教授之推薦函，可另請他人推薦，惟需另敘明原因；其餘 2 封則不限推薦人。推薦信可請推薦人逕寄至「苗栗縣 35053 竹南鎮科研路 35 號，國家衛生研究院學術發展處轉學術審查會」。

**To: NHRI Scientific Review Committee**

**c/o Department of Research Planning and Development**

**National Health Research Institutes**

**35, Keyan Road, Zhunan Town, Miaoli County 35053, Taiwan**

- (三)曾執行過研究發展獎助計畫或創新研究計畫之研究人員，不得再次申請。

## 貳、申請作業注意事項

- 一、計畫主持人應詳閱本申請作業手冊之後，擇一計畫類型、研究重點、擬定計畫名稱(中、英文計畫名稱以 100 個字元為限，包含符號及空格等)，並於申請截止日期前完成撰寫。

註：計畫類型(TRG、IRG、或 CDG)不得變更。如已登入系統填寫後發現錯誤，僅能清空已填寫之計畫資料，始得以另一計畫類型重新撰寫。為免延誤申請，務請在填寫前謹慎選擇。

## 二、計畫主持人及研究人員資格：

- (一)計畫主持人以一人為限且需為申請機構編制內之專任人員。「創新研究計畫」主持人現職須相當於助教授、助研究員、助研究技師(含)以上或主治醫師職務；「研究發展獎助計畫」主持人現職相當於講師、助研究員、助研究技師(含)以上或主治醫師職務，且具備博士、醫學士或其他同等資格者，博士需於獲得博士學位七年內提出申請，醫學士需於獲任主治醫師五年內或獲得博士學位七年內提出申請。

前述「研究發展獎助計畫」主持人資格年限之計算由獲得博士學位或獲任主治醫師之當年月份起算至申請截止日期(即民國 109 年 3 月 31 日)止。若申請人在申請人獲得博士學位七年內或獲任主治醫師五年內，有服役事實者(服國防役或替代役者除外)，得不計入資格年限，惟申請時須提出說明並檢附退伍令影本；若申請人在前述期間內，有生育事實者，亦得不計入資格年限，每生育一胎得延長資格年限 2 年，惟申請時須提出說明並檢附相關證明文件。



註：自 99 年度起開放預定即將到任之計畫主持人可提出申請。惟，申請人需檢具機構同意聘用及其已回覆同意受聘之相關文件，併同申請公函送達(計畫書本體及相關附件仍為線上作業)，逾時或文件不齊者，概不受理。

- (二)已退休之教學、研究人員，如原任職機構於申請公函內敘明願意提供空間、相關設備供其進行研究，並負責一切相關行政作業，則其得擔任創新研究計畫主持人。
- (三)實施校務基金制度之學校，依國立大學校務基金進用教學人員研究人員及工作人員實施原則聘任之專任教學、研究人員；或私立大學院校比照前述原則遴聘規定所聘任之專任教學、研究人員；或公立醫療院所以醫療相關基金進用之非編制內專任主治醫師等，符合第二條第一目計畫主持人資格者得比照提出申請。
- (四)每一研究計畫主持人以申請及主持一項整合性醫藥衛生科技研究計畫為限。
- (五)主持人提出申請計畫之執行期程，不得與原主持之整合性醫藥衛生科技研究計畫之執行期程重疊。
- (六)各計畫類型下之協同主持人(Co-PI)現職需相當於助教授、助研究員、助研究技師(含)以上或主治醫師，而計畫下研究員(Investigator)現職則需相當於講師級以上。本院研究人員亦可參與計畫執行、擔任計畫下之協同主持人(Co-PI)或研究員(Investigator)，但不得支用任何院外計畫費用。惟，本院編制內之專任助研究員、助研究員級主治醫師(含)以上或主治醫師職務之研究人員，若有實質參與合作、一起提出計畫申請者，本院人員可併申請院內配合款(以申請/執行 1 件為限)；但合聘、兼任或借調至其他機構之研究人員不得申請/執行院內配合款。
- (七)計畫主持人於計畫執行期間，若因進修假(sabbatical)、出國或其他原因暫離執行機構超過 3 個月(含)以上，須事先來函本院申請，經審查同意後方可由其代理人繼續執行計畫，否則計畫將予終止。惟 CDG 計畫主持人若於計畫執行第一年之初(指尚未有計畫執行經費產生前)即需暫離執行機構超過 6 個月(含)以上者，不可申請由他人代理，惟得事先來函本院申請將計畫延後至下一年度再開始執行(申請以一次為限)。另，本院研究人員參與計畫且有執行院內配合款者，其若暫離職務逾 3 個月(含)以上，亦必須事先申請經核可後，方得繼續留用配合款。

### 三、計畫申請期程：

視研究內容之實際需要，創新研究計畫之申請期程最短不得少於 3 年，最長則不得超過 5 年；研究發展獎助計畫則只接受 4 年期計畫之申請。申請計畫之分年計畫內容應有其連貫性，並預期於全程計畫結束時可提出具體成果。

確定計畫內容及所需期程後，應依所申請期程編列每年經費，如因特殊情形有部分期程無須申請經費者，應於 FORM SECTION 8b - Justifications 中予以說明。

若未說明理由且未編足所申請計畫類型最短申請期程(創新研究計畫 3 年、研究發展獎助計畫 4 年)之經費需求，概以不符合申請期程而不受理該申請案。

#### 四、計畫申請經費：

- (一)創新研究計畫每年申請經費最高上限為 300 萬元，研究發展獎助計畫則以全程計畫總經費不超過 800 萬元為限。

註：

- 1.申請案若有本院研究人員實質參與合作(請於 FORM SECTION 5b - Project Executed by NHRI researchers 撰寫院內研究人員執行之計畫內容)，本院研究人員得視研究需要申請院內配合款；惟本院同一研究人員之 TRG 子計畫或 IRG、CDG 院內配合款合計以 1 件為限(含申請與執行中計畫)。
- 2.院內配合款之申請須有本院研究人員實質參與計畫合作，而非僅提供諮詢、研究材料或實驗動物等之合作方式，且各計畫無論本院參與人數多寡，院內經費申請上限皆為每申請案每年 100 萬元，實際補助額度則依審查建議核給。
- 3.申請院內配合款時，請於計畫申請書之 FORM SECTION 1 勾選「Apply for NHRI Matching Fund」，並請務必於 FORM SECTION 2a 勾選申請院內配合款之本院研究人員(限一位)。所需配合款額度及項目請依「整合性醫藥衛生科技研究計畫一經費使用範圍及標準」詳細編列各年度經費，包含人事費、業務費、維護費、旅運費(不含國外差旅費)、材料費及其約用人員所產生之補充保費及適用勞基法所衍生的費用等；惟不得編列設備費及其他管理費。

- (二)計畫主持人得在核定經費額度內編列 NT10,000 元/月之主持人研究津貼(salary supplement)。

註：主持人以支領一份津貼為限，若在其他計畫(如科技部計畫)已支領者，不得再重複編列支領。

- (三)計畫所需經費應依據「整合性醫藥衛生科技研究計畫一經費使用範圍及標準」編列，所列經費應充份說明其適切性、需要性及估算方法，例如：儀器項目、博士後研究員之需求說明，如浮濫編列，審查時除會被刪減經費外，並將影響該計畫核准之優先性。

註：各類整合性計畫皆可編列博士後研究員，其中若為已知人員，請填寫 Biographical Sketch。所需聘用經費包含在研究計畫總經費額度內，惟其經費經審查通過後，不可變更流用。

- (四)若為國際合作之計畫，其研究經費之編列以在國內執行者為限，其在國外執行部份，所需經費應由合作國家提供，不得在本項計畫中申請。



(五)各研究計畫成果發表時，於致謝處必須註明經費補助來源為國家衛生研究院，此將作為每年延續計畫經費之撥付、成果審查及申請再延續（Renewal）計畫審查時之重要參考依據。

五、任何已獲補助之計畫，不得提出本項申請，若經查獲確有經費重複補助情形者，將撤銷補助且計畫主持人於3年內不得再接受本院之補助及委託。

六、研究計畫凡涉及人體試驗、基因重組試驗、第二級以上感染性生物材料試驗、動物實驗者，無論於計畫之第幾年進行該試(實)驗，皆須於申請時即檢附經相關委員會核准之同意函，且各式同意函所載研究題目及期程應與申請計畫一致。請計畫主持人務必留意前述各項試(實)驗之相關規定及其委員會之作業時程，及早提出申請以預留其作業所需時間。若個別計畫另有涉及其它必須經相關單位核准/認證方得進行之研究，亦請計畫主持人務必留意規定並取得同意函，以免影響計畫審查與執行。

若同意函未能及時於計畫申請時上傳，則需於申請時上傳足資證明已送審之文件，並於109年7月1日前以紙本寄送方式補齊同意函。逾期仍未補齊者，將嚴重影響審查結果。各式同意函其他注意事項如下：

(一)人體試驗：除須於計畫申請系統上傳人體試驗委員會(Institutional Review Board, IRB)之同意函外，並須於計畫申請時上傳人體試驗送審之內容(應包含Data and Safety Monitoring Plan)，以便審查委員更具體瞭解其實施細節，惟計畫書本體已包含研究人員Biographical Sketch，且考量上傳檔案空間2MB之限制，故人體試驗送審內容之研究人員Biographical Sketch請勿上傳，如有重覆上傳者一律剔除不予送審。此外，若需在數個醫院收集病人材料時，則須上傳各個醫院之**IRB**同意函。若計畫申請書未詳實填寫涉及之人體試驗並檢附審查同意函者，一經審查發現後，將影響計畫核准之優先性。

提醒：如有以人為對象的研究，均應依衛生福利部及政府相關規定，於所提研究計畫內容進行性別統計分析及差異評估，並應於政府研究資訊系統(GRB)及成果報告中加註「性別」關鍵字，且成果報告應包含性別統計分析結果。

(二)基因重組實驗：必須於計畫申請系統上傳經生物安全委員會審查通過之基因重組實驗同意函。

(三)感染性生物材料試驗：凡涉及第二級以上感染性生物材料試驗者，必須於計畫申請系統上傳經生物安全委員會審查通過之同意函。注意：涉及第三級以上感染性生物材料試驗者，並須報請中央主管機關核備。另，如涉及使用特定高危險病原體或毒素進行基因改造相關研究計畫，應確實遵循疾管署「高危險病原體及毒素研究計畫審查指引」相關規定進行審核並獲同意後始可進行，以確保研究結果之生物安全及生物保全，並保障國人健康及環境安全。

(四)動物實驗：為落實動物實驗倫理「取代」、「減量」及實驗「精緻化」之 3R (Replace、Reduce、Refine)精神，除須於計畫申請系統上傳經動物實驗管理小組審查通過之同意函外，另須併同上傳動物實驗倫理 3R 說明文件(格式不拘)，且若有在數個不同機構進行動物實驗者，則需上傳各機構之審查同意函。另，申請機構須依「動物科學應用機構監督及管理執行要點」相關規定辦理查核，其機構評比結果為較差等級且未改善者，本院得不補助該研究計畫。

## 七、計畫書撰寫說明：

(一)申請者需先於國家衛生研究院整合性醫藥衛生科技研究計畫線上作業系統(網址：<https://erad.nhri.edu.tw>)中註冊獲得帳號後方得填寫計畫申請書，故請務必先上網申請帳號，以免誤時。此外，請隨時將帳號之基本資料及 CV 維持在最新的更新狀態，並確保其正確性。

(二)請至計畫線上作業系統(網址：<https://erad.nhri.edu.tw>)，登入填寫 110 年度創新研究計畫申請書(IRC) 或 110 年度研究發展獎助計畫申請書(CDG)(包含各欄位資料填寫、free format 及附件檔案上傳)，撰寫格式附於本申請手冊內供參，線上操作說明另請參見該系統網頁上之「申請計畫操作說明」。非以上述網路作業者，概不受理。

註：Free format 中之章節(Abstracts in Chinese and English, Progress Report and Response to Previous Review Comments, Research Plan, and Institutional Environment and Resources)請由計畫線上作業系統下載 Microsoft Word 格式檔填寫，切勿自行編製表格，並請務必嚴格遵守頁數限制；撰寫完畢後將 Word 檔轉為 PDF 檔(檔案容量上限為 2MB)，再上傳至線上作業系統。另有簽名欄位者亦請掃描製成 PDF 檔後上傳。上傳之檔案若與章節欄位不符或有毀損而無法讀取之情形者，則該章節內容不予送審，故請申請人上傳完畢後務必再次確認檔案內容是否正確。

(三)計畫書需以英文撰寫，並含中文摘要；研究內容未以英文撰寫情節嚴重者將逕行退件，不予審查。

(四)若有本院研究人員實質參與計畫合作(非僅提供諮詢、研究材料或實驗動物等之合作方式)所提出之申請案，請於計畫申請書之 FORM SECTION 5b - Project Executed by NHRI Researchers (頁數限制 10 頁)具體說明本院研究人員在此合作計畫中執行之研究內容、與計畫主持人如何合作、初步研究資料(Preliminary data)、實驗設計與方法以及此計畫對院內研究之影響或效益，而所要合作執行之工作內容可為院內執行中計畫之延伸，但不得與已在執行中之研究內容重覆。若無本院研究人員參與，或本院研究人員僅提供研究材料或諮詢而無實質合作，或雖有實質合作但不申請院內配合款，則請註記“N/A”。



(五)申請人過去(近 5 年內)若曾申請或執行本院補助計畫，請依本次計畫申請類別 (New, Revision or Amendment, Renewal, 或 Revised Renewal)並參考本手冊第 IV 部分之計畫申請書撰寫說明，詳實撰寫 FORM SECTION 4 並檢附審查意見、成果報告摘要或計畫申請書摘要。若未填寫或檢附文件者，將嚴重影響審查結果。若過去未曾申請或執行本院補助計畫，請在 FORM SECTION 4 空白處註記“N/A”之後上傳至系統。惟，請勿於本章節填寫與申請人過去申請或執行本院補助計畫無關之內容，如有非屬上列項目之其他內容(如：其他補助機構之計畫成果)，則本章節不予送審。

- 1.New：若過去曾經提出申請，然本次申請為“New”之計畫，須將近 5 年內之審查意見皆上傳至系統 Appendix；且若近 5 年內曾獲補助執行之計畫主持人則另需上傳整合性計畫成果摘要及計畫申請書摘要，並請於 FORM SECTION 4 之 Progress Report 填寫近 5 年內執行本院補助之整合性計畫成果。
- 2.Renewal：請填寫 FORM SECTION 4 之 Progress Report，並將先前近 5 年獲補助執行之成果報告摘要、計畫申請書摘要及審查意見上傳至系統 Appendix。
- 3.“Revision or Amendment” 或 “Revised Renewal”：計畫曾於近 5 年內提出申請但審查未獲通過，則同一計畫經修正後於本次再提出申請時，務必撰寫 FORM SECTION 4 之 Response to Previous Review Comments，且申請書 FORM SECTION 5 之 Research Plan 更修處應以粗體字呈現，並須將近 5 年內之審查意見皆上傳至系統 Appendix；近 5 年內曾獲補助執行之計畫主持人，亦請填寫 FORM SECTION 4 之 Progress Report，並將先前獲補助執行之成果報告摘要及計畫申請書摘要上傳至系統 Appendix。

註：「近 5 年之審查意見」係指申請 105~109 年度之計畫者，申請人可由審查意見上之“Appl. No.”辨識其最末碼數字為 105~109 者，即為須上傳至系統之審查意見。「近 5 年之整合性計畫成果」係指計畫執行年度為 104~108 年度者，計畫主持人可由計畫編號中 EX 緊接之數字辨識，亦即計畫編號中含 EX104、EX105、EX106、EX107、EX108 者，即為須上傳至系統之成果摘要(如為全程結束者，可檢附全程成果報告摘要)。「近 5 年之計畫申請書摘要」係指計畫執行年度為 104~108 年度者，其獲審查通過當時之整合性計畫申請書摘要亦請上傳至系統。

(六)計畫主持人、協同主持人及研究員，應於 FORM SECTION 9 - Other Support 表格中列出最近 3 年內由國家衛生研究院、衛生福利部或其他機構(例如科技部等)補助，且擔任計畫主持人或子計畫負責人之其他計畫以及申請中之計畫，並於“Overlap with this Application”欄位說明其研究內容、期程或經費等與本次申請計畫是否可能重疊情形；且將上述計畫摘要上傳至系統 Appendix。(自 106 年迄今仍執行中、已執行完畢或目前申請中尚未得知審查結果之計畫皆須填寫，若未詳實填列者，將影響審查結果。若無則請填寫“None”，若有本院研究人員實質參與合作之計畫，本院研究人員亦須填列說明院內經費支持之研究內容並檢附計畫摘要。)

- (七)過去曾執行本院補助計畫者，除列舉論文產出成果外，若有衍生之專利申請或技術移轉成果，亦請詳列於計畫書之 FORM SECTION 10 - Biographical Sketches 中以利審查。
- (八)計畫之申請應經所屬機構首長於 FORM SECTION 11 - Certificate of Agreement for the Application 簽署(如有特殊情形，可由機構首長代理人或掌管研究事務之主管，例如研究副校長或研發長代之)，並以正式公函向國家衛生研究院提出申請，以個人名義申請者概不接受。
- (九)撰寫計畫書前，務請詳閱本申請手冊第 III 部分之撰寫說明(含頁數限制)，並遵照說明內的每一項規定及書表格式至計畫線上作業系統填寫。「創新研究計畫」請參閱“Guidelines for Innovative Research Grant Application”；「研究發展獎助計畫」請參閱“Guidelines for Career Development Grant Application”。
- (十)計畫書之撰寫應力求詳盡完整，計畫書內容不完整，將嚴重影響審查結果。另請務必嚴格遵守頁數限制之規定，若有不符頁數規定者(含刻意縮小字體或行距以規避頁數限制)，截止期限後將不再予以補正，超頁部分將一律抽除不予送審。(需線上填寫之表格於線上填寫完畢後，請務必預覽列印，以檢視每一章節是否符合頁數限制及內容是否無誤，以免因頁數限制而因此影響審查結果。)
- (十一)計畫申請截止期限前，於申請系統點選「計畫送件」並取得送件編號 Serial Number 後，如發現有疏漏之處欲修正，請點選「計畫退件」後進行修正，並務必於截止期限前再次點選「計畫送件」並取得新的 Serial Number 後方為送件成功。若點選「計畫退件」即視同放棄申請，故若未於截止期限前再送件成功者，恕無法受理申請。計畫申請截止期限後，將不再進行任何補正作業，惟若有突破性的研究成果、出版新的論文著作等嶄新的研究資料，則可於 7 月 1 日前提供(紙本寄達)，惟不得超過 A4 紙張二頁(單面列印)。
- (十二)計畫書撰寫務請遵循學術倫理，正確引用並註明資料來源，並應避免研究上不當之行為，或可能誤導審查人員之判斷，而影響資源分配公正與效率之情事(包含抄襲自己或他人已發表之著作或將成果誤導為預計進行之研究、一稿多投、未依規定揭露已執行或申請中之研究計畫...等)。如在行政篩選或學術審查等過程中，發現有抄襲、剽竊、造假等違反學術倫理或著作權法之行為，將依本院「學術倫理處理要點」及「學術倫理案件處理程序」處理，經查屬實依其情節嚴重程度，最多於十年內不得再申請及執行本院各項院外研究計畫；如若再犯，則最重終生不得再申請及執行。此外，前述違反事項亦得視個別案例情形予以公告以為警惕。

另，本院於過去徵求發現有申請人於計畫申請書中援用文獻內容，卻未遵循學術社群共同接受的準則作適當的引用(quotation)或引註(citation)，雖然可能並非蓄意所為，但已對審查造成困擾，亦違反學術倫理。本次徵求本院將於行政上加強對計畫申請書內容原創性之比對(例如利用市面上商用比對軟體 iThenticate 進行比對)，以協助審查委員作出更公正的判斷，亦請申請機構加



強學術倫理教育並落實管理，俾使研究人員能以更負責、嚴謹的心態撰寫計畫。若於審查過程中被發現有違反學術倫理之行為，將依本院「學術倫理處理要點」及「學術倫理案件處理程序」處理。

申請機構應依「科技部補助專題研究計畫作業要點」完成學術倫理相關之管理及教育機制；同時，如發現研究計畫之參與人員涉有違反學術倫理情事者，應為適當之處置，並將處置結果即提報本院。

## 八、計畫書收件

除機構公函、CDG 推薦信及彩色圖片(有需要者)外，其餘申請文件皆採線上填寫及上傳方式送件，網址：<https://erad.nhri.edu.tw>。線上繳交的資料包括下列 3 種：

(一)計畫書：計畫書本體於 Web 線上申請後檔案將直接進入本處系統資料庫。

註：

- 1.線上填寫後務必按「計畫送件」鍵，以完成線上申請作業並取得送件編號 Serial Number。各申請人請記錄下送件編號 Serial Number 以確認計畫申請送出成功並得視需要自行列印出紙本計畫書留存，但切勿繳交紙本。若有送達紙本計畫書者，雖未予採用送審，但亦不檢還。
- 2.線上傳送計畫書請注意檔案傳送至正確之 FORM SECTION，非屬該 Section 之文件或檔案錯置無法辨別者，一律不予採用送審。
- 3.未於線上填寫計畫書而僅送達紙本計畫書者，一律退件不予送審。

(二)一般附件(如有涉及則需上傳)：包括所有人體試驗送審內容(含 Data and Safety Monitoring Plan)及審查同意函、動物實驗倫理 3R 說明文件及動物實驗審查同意函、基因重組實驗審查同意函、第二級以上感染性生物材料試驗審查同意函、曾申請本院整合性計畫的審查意見、獲本院補助的整合性計畫申請書摘要或成果報告摘要、近 3 年所執行或申請中計畫之研究計畫摘要、贊助或合作的實驗室/顧問或研究人員之同意信函及估價單等。請依規定檢附必要文件，如有非屬上列資料之其他文件，一律不予採用送審。

(三)論文及著作：以 10 篇為限(請編製目錄，並依序上傳)。

另，計畫書因複製所限無法呈現彩色圖片，然若計畫書本體(FORM SECTION 5 - Research Plan)確有彩色圖片之需者，則務請於 109 年 4 月 10 日下午 4 時前紙本寄達清晰可辨之彩色輸出圖片乙式 5 份，逾時不予送審。

## 九、申請截止日期：

(一)計畫申請書截止期限為 109 年 3 月 31 日下午 4 時正，計畫書宜儘早準備，並務必於截止期限以前至國家衛生研究院整合性醫藥衛生科技研究計畫線上作業系統（網址：<https://erad.nhri.edu.tw>）撰寫並傳送計畫書(全部撰寫完成後務

必按「計畫送件」鍵)，以完成線上申請作業並取得送件編號 Serial Number。此外，機構公函、CDG 推薦函及彩色圖片(有需要者)之各項紙本，請於 4 月 10 日前寄達苗栗縣 35053 竹南鎮科研路 35 號，國家衛生研究院學術發展處(注意：請預留申請機構彙整作業或投遞所需時間)。如有逾時或未至本院整合性醫藥衛生科技研究計畫線上作業系統撰寫並上傳者，概不受理申請。

註：若因機構內部作業所需，FORM SECTION 11 - Certificate of Agreement for the Application 之「機構首長」欄位可暫留空白免簽名，但其他研究人員之欄位必須完成簽名並上傳至系統；待整份計畫書點選「計畫送件」鍵並取得送件編號 Serial Number 後，另將該頁以紙本補呈送機構首長簽名後，於 4 月 10 日前併同公函送達。

- (二)計畫書送出以前，應使用各項計畫申請書格式所附之檢查表，審慎核對是否符合本申請須知之各項規定。計畫書送出後，如於申請截止日期前發現有疏漏之處欲修正，請點選「計畫退件」後進行修正，並務必於截止日期前再次點選「計畫送件」並取得新的 Serial Number 後方為送件成功。若點選「計畫退件」後未於截止日期前再送件者，恕無法受理申請。計畫申請截止日期後，無論計畫書、一般附件或論文著作皆無補正機會。
- (三)人體試驗審查同意函、動物實驗審查同意函、基因重組實驗審查同意函、第二級以上感染性生物材料試驗審查同意函及研究發展獎助計畫之推薦函應於 109 年 7 月 1 日前補齊(紙本補件)。另外，若有突破性的研究成果、出版新的論文著作等嶄新的研究資料，亦可於 109 年 7 月 1 日前提供(紙本補件)，惟以 2 頁 A4 紙張單面列印為限。

#### 十、計畫申請常見疏漏：

計畫撰寫時，請務必確認計畫主題符合本年度徵求之研究重點，其餘常見疏漏提示如下：

- (一)計畫書未按「計畫送件」鍵將整份計畫書線上送出或逾時未能上傳、主持人資格不符、計畫申請機構不符規定而未能申請、計畫申請期程不符及研究內容未以英文撰寫情節嚴重者等，以上均將逕行退件不予審查，資料亦不檢還。
- (二)未經部門主管或機構首長簽署、計畫書內容或附件不齊全、研究人員之 Biographical Sketches 填寫未盡周詳或 Certificate of Agreement for the Application 簽署不齊全、計畫書格式不符、申請經費超過限制、未依規定編列或 Justifications 未詳盡填寫、計畫類型為“Revision or Amendment”或“Revised Renewal”之計畫未回應先前之審查意見、曾獲本院補助之計畫未填寫 Progress Report、“Revision or Amendment”及“Revised Renewal”計畫書之 Research Plan 未以粗體字呈現修改部分、Other Support 未完整填寫或未檢附其計畫摘要、人體試驗及動物實驗...等各式同意函未檢附或檢附之文件所載



研究題目、期程與申請計畫不符、未檢附贊助或合作的實驗室/顧問或研究人員之同意信函等，以上均將影響審查結果。

註：計畫書各章節如有未符合頁數限制之情形，其無論排版間距是否仍留有空間，凡有超頁部分將一律不予送審，請申請人於撰寫計畫書時，務必留意各章節之頁數限制，以免因此影響審查結果。

## 參、計畫審查作業

### 一、審查人員之組成

- (一)由國家衛生研究院聘請國內外傑出醫藥衛生學者專家，組成學術諮議會。
- (二)學術諮議會下依計畫主題分設 5 組學術審查會，每一學術審查會由國家衛生研究院依當年度各組計畫數多寡，聘請國內外相關領域之學者專家 8 至 15 人組成。必要時各委員會召集人得邀請其他專家作特殊項目之審查。

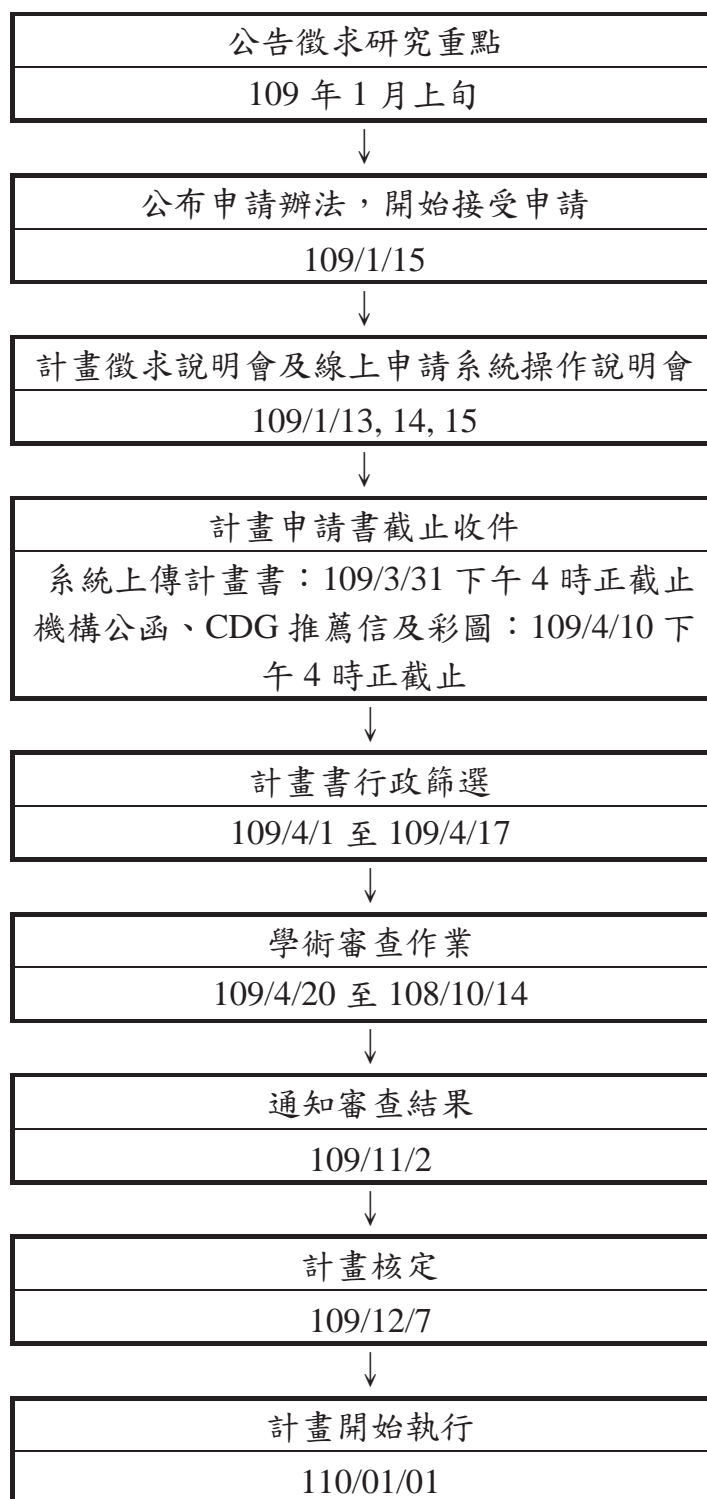
### 二、審查作業之程序

- (一)研究計畫申請案，依研究主題分送至適當之學術審查會。
- (二)各組學術審查會之召集人，按審查委員之專長，每一計畫指定 2 位審查委員，負責撰寫審查意見書，並由該 2 位審查委員及另一位研究領域相近之評分委員進行初審評分。
- (三)各組學術審查會召開審查會議，由該組之全體委員參加，逐案討論、評分及建議經費。
- (四)5 組學術審查會之審查結果，提交學術諮議會，再進行綜合討論，確定各申請案補助之優先次序。

### 肆、研究發展成果歸屬及運用

計畫審查通過執行，其研發成果的管理、運用及權益分配等，參照「科學技術基本法」、「政府科學技術研究發展成果歸屬及運用辦法」、其它相關法令及本院與執行機構訂立之合約辦理。

## 伍、作業時程



\* 申請者需先於整合性醫藥衛生科技研究計畫線上作業系統 (<https://erad.nhri.edu.tw>) 中註冊獲得帳號後方得填寫計畫申請書，故請務必先上網申請帳號，以免誤時。

# 國家衛生研究院整合性醫藥衛生科技研究計畫

## 經費使用範圍及標準

註<sup>1</sup>：凡未列於本表之經費項目均不得編列

108 年 12 月修訂

註<sup>2</sup>：NHRI 子計畫經費及院內配合款經費使用範圍包含人事費、業務費、維護費、旅運費(不含國外差旅費)、材料費及其約用人員所產生之補充保費及適用勞基法所衍生的費用；惟不得編列設備費及其他管理費。

項目名稱	說 明	標 準
壹、研究費 (Research General)		
一、人事費 (Personnel)		
1.專任研究人員薪資 (Post Doctor Fellow and Full Time Research Assistant)	1. 執行本計畫所需聘雇博士後研究員及專任研究助理。 2. 在其他計畫支領專任研究人員薪資者不得在本計畫下重複支領。 3. 經費編列及核銷報支時應註明具領人適用之薪級標準並檢附薪資標準表。	依照機構自訂之科技部計畫人員薪資表，或依執行機構內部訂定之標準編列(NHRI 子計畫經費及院內配合款補助約用之專任助理人員及博士後研究員，請依本院標準編列)。 <b>註：自 95 年起，博士後研究員之工作酬金將俟機構來函本院核備獲准後始撥付本項經費，且此項費用以不得辦理變更及流用為原則，如有餘款必須繳還本院。</b>
2.計畫主持人研究津貼 (Salary Supplement)	1. 自 92 年度起，計畫總主持人得在核定經費額度內編列主持人研究津貼。 2. 子計畫負責人、協同主持人及研究員等均不予研究津貼之補助。	10,000 元/月 <b>註：主持人以支領一份津貼為限，若由政府經費補(捐)助或委託之計畫已支領者，不得再重複編列支領。</b>
3.兼任研究人員費用 (Part Time Research Assistant)	1. 為協助研究計畫之執行，其現況須為與執行計畫相關之機構內博士、碩士班研究生及大專學生。 2. 同一兼任研究助理參與一個以上研究計畫時，以支領一份研究費用為原則。 3. 兼任人員不得支領年終獎金。 4. 經費編列及核銷報支時應註明具領人適用之薪級標準並檢附薪資標準表。	依執行機構自訂之標準按計畫性質核實支給，學生兼任人員認定屬學習範疇者，支給研究津貼；認定屬僱傭關係者，支給工作酬金(NHRI 子計畫經費及院內配合款補助約用之兼任研究助理，請依本院標準編列)。
4.臨時工資 (Temporary Worker)	實施本計畫特定工作所需勞務之工資。	每人天(滿 8 小時) 1264 元/每人時 158 元(請以勞動部最新公告之基本工資標準辦理)；每人每月不得超過 24 天、以

項目名稱	說 明	標 準
		<p>時計酬者每日不得超過 8 小時。</p> <p>每年度編列上限為新台幣 10 萬元整，若因執行計畫所需有更高額度需求，請於申請時詳敘用途，待審查通過方可編列。</p>
5.勞健保費用 (Insurance)	雇主應負擔部分之專任助理人員勞、健保費，惟，如有二代健保之補充保費應於管理費項下列支。兼任助理及臨時工若有需要亦得比照辦理。	依據勞、健保局公佈之最新標準(如附表)。
6.公提儲金 (Mandatory Pension Contribution)	專任助理人員之公提儲金(退休金或離職儲金)，兼任助理及臨時工亦得比照辦理	
二、業務費 (Miscellaneous)		
1.文具紙張 (Stationery)	實施本計畫所需油墨、紙張、文具等費用。	
2.郵電 (Postage & Telecommunication)	<p>1. 實施本計畫所需郵資、電報、電話費等費用。</p> <p>2. 電話機、傳真機之裝機費不得報支；行動電話之申請及帳單亦不得報支。</p>	
3.印刷 (Printing)	實施本計畫所需書表、研究報告等之印刷裝訂費及影印費。	
4.租金 (Rental)	實施本計畫所需租用機器設備等租金，但不得租賃房舍、車輛、辦公設備。	
5.油脂 (Gasoline)	實施本計畫所需車輛、機械設備之油料費用。(車輛之油料費用，係指從事調查研究之實地訪查，而非屬派遣機關人員出差，其性質與出差旅費之報支不同，受委託或補(捐)助單位如無公務車可供調派，而需由實地訪查人員駕駛自用汽	

項目名稱	說明	標準
	(機)車從事該訪查，且此項情形已於委託或補(捐)助計畫(或合約)訂明者，其所需油料費，得由各補助或委辦機關本於職責自行核處，檢據報支。)	
6.調查訪問費 (Survey)	實施本計畫所需問卷調查之填表或訪視費。	每份 50 元至 250 元，依問卷內容繁簡程度，酌予增減。有特殊需要者，可來文專案申請，經審核同意後方可核銷。
7.儀器設備使用費 (Equipment Service)	實施本計畫所需各項儀器設備使用費。	
8.電腦處理費 (Computer Processing)	實施本計畫所需電腦資料處理費。包括資料譯碼及鍵入費、電腦使用時間費、磁片、光碟片、報表紙、色帶及印表機碳匣等。如有需隨身碟為資料轉存媒介者，必須確與計畫直接相關且為 3,000 元以下方得編列。	
9.資料蒐集費 (Data Collecting)	實施本計畫所需購置國內、外參考書籍、期刊或資料檢索費。	依實際需要編列，最高金額為五萬元。有特殊需要者不在此限，但需詳加說明其需要性，待審查通過方可編列。
10.論文發表 (Publication)	本計畫研究成果發表於學術期刊上所需之費用（包含論文投稿費用及編修費用）。論文發表前無須來文核備，但須註明由國家衛生研究院(National Health Research Institutes)資助及計畫編號之字樣，方得核銷。(執行中之計畫論文發表費皆請於計畫經費下報支。)	篇數及金額並未規定上限，請依實際需要編列。 註：每篇論文抽印本份數以補助 50 本為上限。
11.出席費 (Attending Fee)	<ol style="list-style-type: none"> <li>實施本計畫所需專家諮詢會議之出席費，非以專家身分出席者或相同執行機構之出席者不得支領。</li> <li>屬工作協調性質、工作報告及檢討之會議不得支給出席費。</li> <li>計畫下人員不得支領此費用。</li> </ol>	每人次 2,500 元上限(視會議諮詢性質酌予支給)。

項目名稱	說明	標準
12.鐘點費 (Lecture Fee)	1. 實施本計畫所需訓練研討會等學術活動之授課講演鐘點費或實習指導費。 2. 工作會報等活動不得支領本項費用。 3. 計畫下人員不得支領此費用。	機構內人員：1000 元/節 機構外人員 無隸屬關係：2,000 元/節 具隸屬關係：1,500 元/節 授課時間每節 50 分鐘
13.稿費 (Document Fee)	1. 實施本計畫所需撰稿及翻譯費。 2. 計畫下人員不得支領本項費用。 3. 計畫書及研究報告撰寫不得報支本項費用。 4. 相同執行機構之人員不得支領。	每千字以 1,020 元為上限
14.訓練費 (Training Fee)	實施本計畫所需之國內訓練費用(含報名費、往返服務機關、訓練機構間之交通費。)	
15.其他 (Others; please specify)	與計畫相關所需之其他雜支： 1. 計畫主持人及計畫下人員國內研討會之報名費或註冊費(不含國內外學會之年費或入會費)。 2. 訪員意外保險費 3. 受試者意外保險費 4. 受試者營養費或禮品費 *受試者各項費用及物品僅得以擇一給予為原則 5. 受試者車馬費 6. 其他臨床試驗相關費用 實施本計畫臨床試驗所需之診療、檢查、檢驗等之費用 7. 人體試驗委員會等審查費用。	每人投保金額上限 400 萬元(意外險、保險項目含意外身故、殘廢及傷害醫療給付)。 依需求核實報支 受試者營養費每人次 50 元至 300 元；禮品費得依計畫執行實際需求編列，惟每份以 300 元為上限。 應檢據核實報銷，交通費依國內出差旅費報支要點規定報支。 應於計畫申請時詳細敘明並經審查通過，方可檢據核實報支。



項目名稱	說 明	標 準
三、維護費 (Maintenance)	實施本計畫所使用公有儀器設備之修繕及維護費用。	
四、旅運費 (Travel & Delivery fee)		
1.國內旅運費 (Domestic Travel & Delivery Fee)	1.實施本計畫所需之國內差旅費及運費（含國內快遞費）。 2.分為交通費、住宿費、雜費等。 3.交通費包括出差行程中必須搭乘之飛機、高鐵、船舶、汽車、火車、捷運等費用。前項所稱汽車係指公民營客運汽車，凡公民營汽車到達地區，除因業務需要且事先敘明理由經機關核准者外，不得報支計程車費。	國內差旅費之編列應預估所需出差之人天數，並得以 2,500 元/人天估算。實際報支時應按下列標準支給： 1.交通費按實開支。 2.住宿費支付上限：（檢據核實報銷）教授、副教授、助理教授、專兼任助理人員及學生：2,000 元/日 3.雜費上限：400 元/日
2.國外旅運費 (Overseas Travel & Delivery Fee)	1.實施本計畫所需之國外差旅費及運費(含國外快遞費) 2.國外差旅費之編列：以計畫主持人及優秀博士後研究員出國參加國際學術會議並發表重要研究成果為原則，每計畫每年度以每人 1 次為限，每次補助上限包含交通費及生活費等，計畫主持人補助總額以新台幣 15 萬元為上限，博士後研究員以新台幣 5 萬元為上限，但實際補助額度需於出國前向執行機構提出申請。計畫主持人或優秀博士後研究員國外差旅費如因故未動支，應將款項全部繳回本院，詳情請參照「國家衛生研究院補助整合性醫藥衛生科技研究計畫主持人及優秀博士後研究員出國參加國際學術會議申請注意事項」辦理。	國外差旅費機票款以經濟艙為限，日支生活費標準請依照「中央政府各機關派赴國外各地區出差人員生活費日支數額表」最新標準報支。(參考網址： <a href="http://law.dgbas.gov.tw/Download.ashx?FileID=2465">http://law.dgbas.gov.tw/Download.ashx?FileID=2465</a> )。
五、材料費 (Consumables)	1. 實施本計畫所需消耗性器皿、材料、藥品、動物購買或飼養等費用。 2. 應詳列各項材料之名稱、單價、數量與總價。	

項目名稱	說明	標準
貳、管理費 (Overhead)	<ol style="list-style-type: none"> <li>1. 本項經費應由計畫執行單位統籌支用，但不得違反相關規定。</li> <li>2. 使用項目如下： <ol style="list-style-type: none"> <li>(1) 水、電、瓦斯費、大樓清潔費及電梯保養費。</li> <li>(2) 執行機構人員協辦研究計畫業務或計畫約用人員之加班費。</li> <li>(3) 推動實驗室安全衛生之費用。</li> <li>(4) 辦理本院整合性計畫研發成果管理與推廣業務(包括申請專利及技術移轉)所需相關費用。</li> <li>(5) 依全民健康保險法規定需計收投保單位(執行機構)之補充保費。</li> <li>(6) 計畫下約用助理人員或臨時工依勞動基準法除勞健保費及公提儲金外，其他所衍生應支出之費用。</li> <li>(7) 其他與研究計畫直接有關之費用。</li> </ol> </li> </ol>	視實際需要，以 <u>不超過計畫下研究費總和之百分之十為限</u> 。唯年度計畫總經費為 300 萬元(含)以下者以 25 萬元為最高編列；總經費大於 300 萬至 600 萬元者以 30 萬元為最高編列；總經費大於 600 萬至 1000 萬元者以 40 萬元為最高編列。(台灣醫衛重要主題研究計畫各子計畫不得超過其研究費總和之百分之十，且累計後亦不得超過總計畫管理費之上限)
參、設備費 (Equipment)	<ol style="list-style-type: none"> <li>1. 採購及安裝本計畫所需之儀器設備、電腦軟體或程式設計費用，所列設備費與實驗研究直接相關者為限。</li> <li>2. 單價為 1 萬元(含)以上且使用年限在 2 年以上之資產方得編列(單價低於 1 萬元者，列入材料費或業務費項下)。</li> <li>3. 普通設備或非消耗品如辦公室桌椅、複印機、打字機、傳真機、電腦及其週邊等均不得編列之。</li> <li>4. 擬購置之儀器設備應詳列其名稱、規格、數量、單價及總價。</li> <li>5. 經費申請及編列時，單價<b>超過 10 萬元以上者</b>應附一家廠商估價單。</li> </ol>	

# 勞健保費用分攤比例表

## 一、勞工普通事故保險費用計算公式（自 108 年 1 月 1 日起實施）：

員工自付金額＝月投保薪資×保險費率 11% ×負擔比率 20%

雇主負擔金額＝月投保薪資×保險費率 11% ×負擔比率 70%

政府補助金額＝月投保薪資×保險費率 11% ×負擔比率 10%

（保險費率 11%：含勞工保險普通事故保險費率 10% ＋ 就業保險費率 1%）

## 二、全民健康保險費用計算公式（自 105 年 1 月 1 日起實施）：

員工自付金額＝月投保薪資×保險費率 4.69% ×負擔比率 30% ×（1＋眷口數）

雇主負擔金額＝月投保薪資×保險費率 4.69% ×負擔比率 60% ×（1＋平均眷口數）

政府補助金額＝月投保薪資×保險費率 4.69% ×負擔比率 10% ×（1＋平均眷口數）

註 1：投保單位應負擔之平均眷口數為 0.58 人。

註 2：本公式適用於公民營事業、機構等有一定雇主的受僱者本人及眷屬

## 三、勞工普通事故保險及就業保險負擔金額表

單位：新台幣元

投保薪資等級	月薪資總額	月投保薪資	被保險人負擔金額 (20%)	投保單位負擔金額 (70%)
部分工時 勞工適用	11,100 以下	11,100	244	855
	11,101~12,540	12,540	276	966
	12,541~13,500	13,500	297	1040
	13,501~15,840	15,840	349	1220
	15,841~16,500	16,500	363	1271
	16,501~17,280	17,280	381	1331
	17,281~17,880	17,880	394	1377
	17,881~19,047	19,047	419	1466
	19,048~20,008	20,008	440	1541
	20,009~21,009	21,009	462	1618
	21,010~22,000	22,000	484	1694
	22,001~23,100	23,100	508	1779
1	23,101~23,800	23,800	524	1833
2	23,801~24,000	24,000	528	1848
3	24,001~25,200	25,200	554	1940
4	25,201~26,400	26,400	581	2033
5	26,401~27,600	27,600	607	2125
6	27,601~28,800	28,800	634	2218
7	28,801~30,300	30,300	667	2333
8	30,301~31,800	31,800	700	2449
9	31,801~33,300	33,300	733	2564
10	33,301~34,800	34,800	766	2680
11	34,801~36,300	36,300	799	2795
12	36,301~38,200	38,200	840	2941
13	38,201~40,100	40,100	882	3088
14	40,101~42,000	42,000	924	3234
15	42,001~43,900	43,900	966	3380
16	43,901~	45,800	1008	3527

資料來源：勞動部勞工保險局網站 <http://www.bli.gov.tw>（請比照最新規定辦理）  
108 年 12 月國家衛生研究院學術發展處整理

四、全民健康保險負擔金額表（公、民營事業、機構及有一定雇主之受雇者適用）  
單位：新台幣元

投保金額 等級	月薪資總額	月投保金額	被保險人及眷屬負擔金額 (負擔比率 30%)				投保單位 負擔金額 (60%)
			本人	本人+ 1 眷口	本人+ 2 眷口	本人+ 3 眷口	
1	23,800 以下	23,800	<u>335</u>	<u>670</u>	<u>1005</u>	<u>1340</u>	<u>1058</u>
2	23801~24000	24,000	<u>338</u>	<u>676</u>	<u>1014</u>	<u>1352</u>	<u>1067</u>
3	24001~25200	25,200	<u>355</u>	<u>710</u>	<u>1065</u>	<u>1420</u>	<u>1120</u>
4	25201~26400	26,400	<u>371</u>	<u>742</u>	<u>1113</u>	<u>1484</u>	<u>1174</u>
5	26401~27600	27,600	<u>388</u>	<u>776</u>	<u>1164</u>	<u>1552</u>	<u>1227</u>
6	27601~28800	28,800	<u>405</u>	<u>810</u>	<u>1215</u>	<u>1620</u>	<u>1280</u>
7	28801~30300	30,300	<u>426</u>	<u>852</u>	<u>1278</u>	<u>1704</u>	<u>1347</u>
8	30301~31800	31,800	<u>447</u>	<u>894</u>	<u>1341</u>	<u>1788</u>	<u>1414</u>
9	31801~33300	33,300	<u>469</u>	<u>938</u>	<u>1407</u>	<u>1876</u>	<u>1481</u>
10	33301~34800	34,800	<u>490</u>	<u>980</u>	<u>1470</u>	<u>1960</u>	<u>1547</u>
11	34801~36300	36,300	<u>511</u>	<u>1022</u>	<u>1533</u>	<u>2044</u>	<u>1614</u>
12	36301~38200	38,200	<u>537</u>	<u>1074</u>	<u>1611</u>	<u>2148</u>	<u>1698</u>
13	38201~40100	40,100	<u>564</u>	<u>1128</u>	<u>1692</u>	<u>2256</u>	<u>1783</u>
14	40101~42000	42,000	<u>591</u>	<u>1182</u>	<u>1773</u>	<u>2364</u>	<u>1867</u>
15	42001~43900	43,900	<u>618</u>	<u>1236</u>	<u>1854</u>	<u>2472</u>	<u>1952</u>
16	43901~45800	45,800	<u>644</u>	<u>1288</u>	<u>1932</u>	<u>2576</u>	<u>2036</u>
17	45801~48200	48,200	<u>678</u>	<u>1356</u>	<u>2034</u>	<u>2712</u>	<u>2143</u>
18	48201~50600	50,600	<u>712</u>	<u>1424</u>	<u>2136</u>	<u>2848</u>	<u>2250</u>
19	50601~53000	53,000	<u>746</u>	<u>1492</u>	<u>2238</u>	<u>2984</u>	<u>2356</u>
20	53001~55400	55,400	<u>779</u>	<u>1558</u>	<u>2337</u>	<u>3116</u>	<u>2463</u>
21	55401~57800	57,800	<u>813</u>	<u>1626</u>	<u>2439</u>	<u>3252</u>	<u>2570</u>
22	57801~60800	60,800	<u>855</u>	<u>1710</u>	<u>2565</u>	<u>3420</u>	<u>2703</u>
23	60801~63800	63,800	<u>898</u>	<u>1796</u>	<u>2694</u>	<u>3592</u>	<u>2837</u>
24	63801~66800	66,800	<u>940</u>	<u>1880</u>	<u>2820</u>	<u>3760</u>	<u>2970</u>
25	66801~69800	69,800	<u>982</u>	<u>1964</u>	<u>2946</u>	<u>3928</u>	<u>3103</u>
26	69801~72800	72,800	<u>1024</u>	<u>2048</u>	<u>3072</u>	<u>4096</u>	<u>3237</u>
27	72801~76500	76,500	<u>1076</u>	<u>2152</u>	<u>3228</u>	<u>4304</u>	<u>3401</u>
28	76501~80200	80,200	<u>1128</u>	<u>2256</u>	<u>3384</u>	<u>4512</u>	<u>3566</u>
29	80201~83900	83,900	<u>1180</u>	<u>2360</u>	<u>3540</u>	<u>4720</u>	<u>3730</u>
30	83901~87600	87,600	<u>1233</u>	<u>2466</u>	<u>3699</u>	<u>4932</u>	<u>3895</u>
31	87601~92100	92,100	<u>1296</u>	<u>2592</u>	<u>3888</u>	<u>5184</u>	<u>4095</u>
32	92101~96600	96,600	<u>1359</u>	<u>2718</u>	<u>4077</u>	<u>5436</u>	<u>4295</u>
33	96601~101100	101,100	<u>1422</u>	<u>2844</u>	<u>4266</u>	<u>5688</u>	<u>4495</u>
34	101101~105600	105,600	<u>1486</u>	<u>2972</u>	<u>4458</u>	<u>5944</u>	<u>4695</u>
35	105601~110100	110,100	<u>1549</u>	<u>3098</u>	<u>4647</u>	<u>6196</u>	<u>4895</u>
36	110101~115500	115,500	<u>1625</u>	<u>3250</u>	<u>4875</u>	<u>6500</u>	<u>5135</u>
37	115501~120900	120,900	<u>1701</u>	<u>3402</u>	<u>5103</u>	<u>6804</u>	<u>5375</u>

投保金額 等級	月薪資總額	月投保金額	被保險人及眷屬負擔金額 (負擔比率 30%)				投保單位 負擔金額 (60%)
			本人	本人+ 1 眷口	本人+ 2 眷口	本人+ 3 眷口	
38	120901~126300	126,300	<u>1777</u>	<u>3554</u>	<u>5331</u>	<u>7108</u>	<u>5615</u>
39	126301~131700	131,700	<u>1853</u>	<u>3706</u>	<u>5559</u>	<u>7412</u>	<u>5856</u>
40	131701~137100	137,100	<u>1929</u>	<u>3858</u>	<u>5787</u>	<u>7716</u>	<u>6096</u>
41	137101~142500	142,500	<u>2005</u>	<u>4010</u>	<u>6015</u>	<u>8020</u>	<u>6336</u>
42	142501~147900	147,900	<u>2081</u>	<u>4162</u>	<u>6243</u>	<u>8324</u>	<u>6576</u>
43	147901~150000	150,000	<u>2111</u>	<u>4222</u>	<u>6333</u>	<u>8444</u>	<u>6669</u>
44	150001~156400	156,400	<u>2201</u>	<u>4402</u>	<u>6603</u>	<u>8804</u>	<u>6954</u>
45	156401~162800	162,800	<u>2291</u>	<u>4582</u>	<u>6873</u>	<u>9164</u>	<u>7238</u>
46	162801~169200	169,200	<u>2381</u>	<u>4762</u>	<u>7143</u>	<u>9524</u>	<u>7523</u>
47	169201~175600	175,600	<u>2471</u>	<u>4942</u>	<u>7413</u>	<u>9884</u>	<u>7807</u>
48	175601 以上	182,000	<u>2561</u>	<u>5122</u>	<u>7683</u>	<u>10244</u>	<u>8092</u>

資料來源：衛生福利部中央健康保險署全球資訊網 <http://www.nhi.gov.tw>（請比照最新規定辦理）

108 年 12 月國家衛生研究院學術發展處整理



## 柒、計畫申請系統操作提要

一、本作業系統適用於 Internet Explorer( IE )10.0(含以上) 、Firefox、Chrome 及 Safari 之瀏覽器。

二、系統網址：<https://erad.nhri.edu.tw>。

三、本系統提供「整合性醫藥衛生科技研究計畫」之台灣醫衛重要主題研究計畫(TRG)、創新研究計畫申請書(IRG)及研究發展獎助計畫申請書(CDG)線上製作作業，包括各欄位資料填寫及上傳；Free format 的空白格式(Microsoft Word 檔案)下載；申請書各 Section 及附件的預覽及列印。

四、申請人(計畫主持人)需有本系統核發之登錄用帳號及密碼，方能使用線上申請系統功能。帳號及密碼的取得方式為先連線至系統網站首頁，點選「帳號註冊」，輸入研究人員基本資料，確認無誤後，點選「確定」，系統會自動寄發帳號及密碼回覆函至您的電子信箱中。

(一) 註冊時所填寫之資料僅為基本資料，欲填寫完整之個人 CV 時，請至網站首頁選登入並輸入申請人之帳號及密碼，登入後點選帳號管理項下之「CV」即可進入編輯畫面填寫或修改個人 CV。請儘可能填寫完整，以利後續填寫計畫申請書或未來填寫成果報告時，系統直接套用資料。

(二) 如計畫之 Key Professional Personnel (如協同主持人、研究人員)已於系統網站註冊者，計畫主持人可請其提供帳號及套用 CV 密碼(非前述之系統登錄密碼)，以利其直接套用 Key Professional Personnel 資料填寫計畫申請書。

五、若申請人遺忘登錄帳號及密碼時，請自系統網站首頁點選登入，點選「忘記密碼」，輸入註冊時填寫之 Email，系統立即自動寄發帳號密碼函至該電子郵件信箱中。若申請人遺忘套用 CV 密碼時，請登錄系統後，點選帳號管理項下之「基本資料」查詢。

六、自系統網站首頁登入後，點選 110 年度計畫申請後選擇欲申請之計畫類型(TRG、IRG 或 CDG)計畫申請書(計畫類型一經選定後不得變更)，即可進入撰寫，撰寫時，除請依本申請作業手冊規定外，各 Section 之操作方式可參閱系統上之操作說明(可點擊加減符號開闔)。若誤選計畫類型，請登入後至 Form Section 1 Face Page 點選“放棄原申請計畫類型”，將所有已填寫及上傳之計畫資料全數刪除，方能重新點選計畫類型後另行填寫/上傳。



七、計畫申請書之各 Section 或附件完成後，請逐項點選「預覽」以確認資料是否正確、是否符合頁數限制、檔案是否完整上傳至正確的位置或未於傳輸過程中導致毀損。

八、請勿上傳加密或含數位簽證之 pdf 檔(如論文抽印本或各式同意函)，以避免整份計畫書送件後合併失敗而影響後續審查作業（關於 pdf 檔加密或數位簽證之檢查，請參考各上傳 section 之說明，若無法確認是否加密或含數位簽證，請先列印出該檔案後，將紙本重新掃描為 pdf 檔再上傳即可）。

九、計畫申請書全部填寫完畢後，申請人應點選「計畫送件」鍵，此時系統將協助檢查必備之 Section 是否皆已填寫/上傳(系統僅檢查必備之 Section 是否有資料，但未檢視資料內容是否正確或是否符合頁數等各項規定)，檢查流程如下：

(一) 如有未填寫/上傳的 Section，系統將提醒該 Section 名稱，此時計畫申請書仍未完成送件，請完成該 Section 的資料填寫/上傳後，再點選「計畫送件」。系統再次檢查是否仍有其他 Section 未填寫/上傳，直至必備之 Section 皆完成後。

(二) 當所有必備之 Section 皆已填寫/上傳時，點選「計畫送件」時系統將再次詢問是否確認送件，如有非必備之 Section 未完成，系統將提醒該 Section 名稱，若確定不需填寫則請忽略並點選「確認送出」，完成計畫送件後，系統會顯示送件時間及送件編號 Serial Number，即完成線上送件作業。

註：前述點選「計畫送件」過程仍需系統反應時間，故請務必提早作業以免誤時。

十、申請人完成計畫送件作業後，請登錄系統點選「預覽整份」下載或列印整份計畫書(不含附件及論文著作)，以確認整份計畫書各章節合併完成，以免影響後續審查進行，並可視需要自行列印紙本計畫書留存(在截止日期前，若送件量大時，需等候較久時間方能完成)。

十一、已完成計畫送件作業之申請人，於截止日期前，如需修改計畫書者，請重新登錄系統點選「計畫退件」後方得修改計畫書。惟，請注意：點選「計畫退件」後即視同放棄計畫申請，且計畫書之狀態回復到尚未完成送件，故請務必儘早修改後，於截止日期前再次點選「計畫送件」(即進入上述第九項作業)，並重新取得送件時間及送件編號，方為完成送件作業。

十三、為避免網路壅塞或整份計畫書合併失敗而未及修正檔案後再次上傳，申請人請提早上線使用並完成計畫送件作業，以免誤時。如有

任何申請疑問請隨時來電洽詢；惟，如係個人之系統操作困難，請務必於計畫申請截止前 1 上班日下午 4 時前來電洽詢，以免因系統疑難排解不及而誤時，恕無法受理逾時之申請案。

註：本系統另提供各申請機構查詢申請計畫基本資料功能：

- (一) 帳號及密碼的取得係由各機構承辦人至系統網站首頁，點選「機構承辦人」轉至機構承辦人專頁，再點選「機構承辦人註冊」並填寫相關基本資料後，點選「確認送出」，系統會自動寄發帳號及密碼回覆函至機構承辦人的電子信箱中；惟，此時該帳號查詢功能尚未啟用，需由機構來函(請註明註冊之帳號及機構承辦人姓名)申請後，本院將以 Email 方式通知機構承辦人帳號啟用。(若註冊後未於 1 個月內來函申請開通者，系統將刪除該帳號)
- (二) 各申請機構至多可申請 3 個帳號，供不同承辦人使用，而每一帳號不分權限，均可瀏覽機構之所有申請計畫基本資料。
- (三) 若機構需更換密碼(機構、帳號不得更換)、承辦人姓名、聯絡資訊...等，可自行登錄系統直接線上修改，毋需再來函申請。
- (四) 若機構承辦人遺忘登錄帳號及密碼時，請至系統網站首頁，點選「機構承辦人」轉至機構承辦人專頁，再點選「忘記帳號密碼」，輸入註冊時填寫之 Email，系統立即自動寄發帳號密碼函至該電子郵件信箱中。

### III、計畫申請書撰寫說明

# 壹、創新研究計畫申請書撰寫說明

## Guidelines for Innovative Research Grant Application

### I. GENERAL INFORMATION

1. In preparing the application, **use English only** and avoid jargon. For terms not universally known, spell out the term the first time it is used followed by the appropriate abbreviation in parentheses; the abbreviation may be used thereafter.
2. Type the application single spaced, and stay within the margin limitations indicated on the form pages. The type must be clear, readily legible and font size is **12 point** (approximately 1/8 inch in height for capital letters). There must be no more than six lines of text within a vertical inch. **Do not reduce font size or line spacing to circumvent the page limitations.**
3. Use black type that can be copied. Provide clear figures, graphs, diagrams, charts, and tables, and include appropriate legends. All photographs or other illustrative materials must be presented in the body of the application in a clear and readable manner, the font size should not be smaller than 9 point, that can be photocopied. When it is essential to illustrate materials in their original forms (color or size), 5 hard copies of the original materials, which have been shown in the Research Plan Section, can be sent to the National Health Research Institutes (NHRI) as supporting documents.
4. If there is any sponsor, consultant or cooperation laboratory listed in this application, please provide the collaborative agreement or supporting letters.
5. **Stay within the page limitations. Any page beyond the limit will be removed by NHRI staff without review, which may seriously affect the review result.** A summary of the page limitations is given as follows:

<u>FORM SECTION</u>	<u>PAGE LIMIT</u>
1. Face Page	1
2. Personnel	
a. Key Professional Personnel	as needed
b. Supporting Staff	as needed

<u>FORM SECTION</u>	<u>PAGE LIMIT</u>
3. Abstracts	
a. in Chinese	1
b. in English	1
4. Progress Report	3
Response to Previous Review Comments	5
5. Research Plan	
a. Research Plan of the Application	
(A) to (E) (Specific Aims to Anticipated Results)	13
(F) to (K) (Human Subjects to Reference)	as needed
b. Project Executed by NHRI Researchers	10
6. Institutional Environment and Resources	1
7. Detailed Budget Requested for Initial Year	
a. Initial Year Budget for Personnel	as needed
b. Initial Year Budget for Other Categories	as needed
8. Equipment and Budget Requested for	
Entire Proposed Project Period	
a. Equipment Requested for Entire Proposed Project Period	as needed
b. Budget Requested for Entire Proposed Project Period	as needed
9. Other Support	as needed
10. Biographical Sketches	4 each
11. Certificate of Agreement for the Application	as needed
12. Checklist	1
13. Appendix	(publications related : <b>no more than 10 materials</b> )

6. Use continuation pages if necessary.

7. Edit page number consecutively at the right bottom for each section respectively.

## II. SPECIFIC INSTRUCTIONS - FORMS

### 1. FORM SECTION 1 - Face Page

A. Complete all items on the face page of the application. This is page 1 of the application.

B. Title of Application: Choose a title that is descriptive and specific rather than general. Do not exceed 100 typewriter spaces, including the spaces between words and punctuation. **Be aware of that this application fits in the research fields listed in the Chinese manual on page I-2.**



- C. Type of Application: Choose one type for this application; if this application is being submitted to the NHRI for the first time, check “New”; if this application is revised to replace an unfunded version of a new application submitted previously to NHRI, check “Revision or Amendment”; if this application is to extend a current grant beyond its funded project period—including extending a current CDG to form an IRG, check “Renewal”; if this application is revised to replace an unfunded version of a renewal application submitted previously to NHRI, check “Revised Renewal”.

A New application must have a different title from any other NHRI project with the same Principal Investigator. If the application is an Amendment, Renewal, or Revised Renewal, please also write down the title of the prior application and the year of its submission. If the specific aims of the project have changed significantly, use a new title.

- D. Entire Proposed Project Period: Request 3-5 years of support for the entire proposed project period.
- E. Budget requested for each year can not exceed NT\$ 3,000,000. For those who have genuine cooperation with NHRI researchers, who will apply for NHRI intramural matching fund as well, the total budget requested for each year can not exceed NT\$ 4,000,000 (i.e. 3 million maximum for extramural grant plus 1 million maximum for intramural matching fund).
- F. Human Subjects: If the activities involving human subjects are planned at any time during the proposed project period, either at the applicant organization or at any other performance site or collaborating institution, check “Yes”. An official document of approval along with its original application contents\*, including **Data and Safety Monitoring Plan**, for the proposed activities from the Institutional Review Board (IRB; e.g., The Committee on Clinical Research, etc.) should be submitted at the same time of this application. If the project is conducted in multiple hospitals or organizations, the IRB approved document is required from each one. If the certification of IRB is unavoidably delayed, the IRB pending sheet and IRB application contents should be submitted with the grant application. The IRB approved document should be presented by **July 1<sup>st</sup>, 2020**. If the certification, the pending sheet, or the application contents of IRB could not be submitted before deadlines, it might affect the outcome of the review.

\*Note: The Biographical Sketch of investigator is part of the proposal,

thus the Biographical Sketch in the original application contents submitted to the Institutional Review Board should not be attached.

- G. Gene Recombination: If the activities involving gene recombination are planned at any time during the proposed project period, either at the applicant organization or at any other performance site or collaborating institution, check “Yes”. An official document of approval for the proposed activities by an institutional biosafety committee should be submitted along with the application. If the certification is unavoidably delayed, the pending sheet should be submitted with the application. The committee approved document should be presented by **July 1<sup>st</sup>, 2020**. If the certification or the pending sheet could not be submitted before deadlines, it might affect the outcome of the review.
- H. Microbes in Risk Group 2, 3, 4: If the activities involving microbes in risk group 2, 3, 4 are planned at any time during the proposed project period, either at the applicant organization or at any other performance site or collaborating institution, check “Yes”. An official document of approval for the proposed activities by an institutional biosafety committee should be submitted along with the application. If the certification is unavoidably delayed, the pending sheet should be submitted with the application. The approved document should be presented by **July 1<sup>st</sup>, 2020**. If the above mentioned documents could not be submitted before deadlines, it might affect the outcome of the review.
- I. Vertebrate Animals: If the activities involving vertebrate animals are planned at any time during the proposed project period, either at the applicant organization or at any other performance site or collaborating institution, check “Yes”. The description of animal ethics 3Rs (Replace, Reduce and Refine) and an official document of approval for the proposed activities by the Institutional Animal Care and Use Committee (IACUC) should be submitted along with the application. If the certification of IACUC is unavoidably delayed, the IACUC pending sheet should be submitted with the application. The IACUC approved document should be presented by **July 1<sup>st</sup>, 2020**. If the certification or the pending sheet of IACUC could not be submitted before deadlines, it might affect the outcome of the review.

## 2. FORM SECTIONS 2a and 2b - Personnel

List all individuals who will participate in the scientific execution of the project, whether or not salaries are offered by this project.

## FORM SECTION 2a- Key Professional Personnel

Key Professional Personnel shall be defined as, and also shall be limited as, individuals who contribute substantively to the scientific development, and execution of the project. Typically, these individuals have the doctoral or other professional degree and act as the Principal Investigator (PI), Co-Principal Investigators (Co-PIs), and Investigators. Detailed qualifications of the PI, Co-PIs and Investigators are stated in the Chinese manual on page II-2~II-3. For those who have genuine cooperation with NHRI researchers, who will apply for NHRI intramural matching fund as well, please be sure to list cooperation NHRI researchers in SECTION 2a, and, among them, choose only one who will apply for NHRI intramural matching fund.

## FORM SECTION 2b- Supporting Staff

Supporting Staff is defined as individual(s) who will participate in the project execution, other than the Key Professional Personnel described above, i.e. postdoctoral fellows (for those who have been recruited, i.e. other than “to be hired”, please fill out the Biographical Sketch), graduate students, undergraduate students, or research assistants.

For every individual listed in Form 2a and 2b, include the position title, the organization and the highest degree. Under the Role on Project describe their specific function.

Estimate the percent effort of all personnel on the project. It should be shown in percentage based on the **working hours for each individual**. For instance, “30 percent effort” means that this individual will devote 30% of his/her working hours on this project, “100 percent effort” means that this individual is full time working on this project. For those who working part time on this project, such as **part time research staff, PI or other key professional personnel, the percent effort should not be 100.**

### 3. FORM SECTIONS 3a and 3b - Abstracts in Chinese and in English

State the application’s broad, long-term objectives and specific aims, making reference to the health relatedness of the project. Describe concisely the research design and methods for achieving these goals.

### 4. FORM SECTION 4 - Progress Report and Response to Previous Review Comments

- A. For “New” application that indicated in Section 1 – Face Page, if the PI never applied or received NHRI grants in the past 5 years, please upload the file indicating “N/A” in this section. If the PI has received NHRI grants in the past 5 years, it is essential to briefly describe the progress (within 3 pages) made during previous grant period in this section. Besides, it is necessary to upload the abstracts of progress reports, abstracts of previous NHRI application, and previous review comments in the past 5 years as appendixes. If the PI has applied for NHRI grants but was not funded in the past 5 years, please upload the review comments in the past 5 years as appendixes.
- B. For competing Renewal applications, a progress report of previous NHRI grant in the past 5 years is required. The “progress report” in this section should not exceed **3** pages. Progress report serves as a basis for continuing support of the proposal, which should describe in detail the progress made during previous NHRI grant period, and compare what was planned in the original application with what was accomplished. Summarize the previous application’s specific aims and provide a succinct account of published and unpublished results indicating progress toward their achievement. Summarize the importance of the findings. Discuss any changes in the specific aims since the project was last reviewed competitively. List all of the patents, invention reports, publications and manuscripts submitted or accepted for publication supported by this grant.

Besides the statements mentioned above, please upload the abstract of the previous NHRI application, previous abstracts of progress reports from the grants funded by NHRI and previous review comments in the past 5 years in appendixes.

- C. For the “Revision or Amendment” or “Revised Renewal” application, a concise description (within 5 pages) of responses to the previous review comments in the past 5 years should be provided. In this section, specify changes that have been made or justify why suggested changes were not made. Point out (Mark) any additions, deletions, or revision, and briefly explain any responses to criticism for this project. Upload the previous review comments in the past 5 years in appendix. In addition, the description of progress made during previous NHRI grant period (within 3 pages) is also required, and the abstract of the previous NHRI application and previous abstracts of progress reports from the grants funded by NHRI in the past 5 years should be uploaded in appendix as well.

**For an amended or renewal application, this section is very important. Those who respond to each criticism or suggestion carefully and indicate how and where the application has been improved leave a favorable impression on the review committee. Disregarding the previous review comments or without progress report by submitting a “New” application may affect the results of the review.**

Please provide all the relevant descriptions or documents discreetly according to the type of application. However, do not write any content not mentioned above (e.g. progress supported by other funding agencies), or it will be removed without review.

## 5. FORM SECTION 5 - Research Plan

### FORM SECTION 5a – Research Plan of the Application

Include sufficient, but concise information to facilitate an effective review. Be specific and informative yet avoiding redundancies. The research plan should consist of in the order of all the following components: (A) specific aims, (B) background and significance, (C) previous and current studies, (D) research design and methods, (E) anticipated results, (F) human subjects, (G) gene recombination, (H) microbes in risk group 2, 3, 4, (I) animal investigations, (J) potential hazards and (K) references. **The absolute maximum number of pages for part (A) to (E) is 13 pages, which will be strictly enforced.** Mark in bold type what was changed or improved based on the previous review comments or results of previous study for “Renewal”, “Revision or Amendment” or “Revised Renewal” application.

※Note : For those who have genuine cooperation with NHRI researchers, who will apply for NHRI intramural matching fund as well, please indicate which part of the research project is executed by NHRI researchers in FORM SECTION 5b.

#### A. Specific Aims (One page is recommended)

Outline the broad, long-term objectives; then, list and describe concisely and realistically what the specific research is intended to accomplish and any hypotheses to be tested. Avoid giving a long list of aims that are unachievable and over ambitious.



B. Background and Significance (Part B+C : do not exceed 6 pages is recommended)

Briefly sketch the background of the present proposal, critically evaluate existing knowledge, and specifically identify the gaps which the project is intended to fill. State concisely the importance of the research described in this application, especially in terms of health relevance, scientific contribution, uniqueness and originality.

C. Previous and Current Studies (Part B+C : do not exceed 6 pages is recommended)

A report of the Principal Investigator's previous studies and all current projects and sources of funding pertinent to the application is required. For a new application, the applicants' preliminary studies will help to demonstrate the experience and competence of the investigators. For a competing renewal application, preliminary studies may help establish the feasibility and importance of the renewal application. Appropriate publications and manuscripts submitted or accepted for publication may be listed.

D. Research Design and Methods

Describe the research design and the procedures to be used to accomplish the specific aims of the project. Include the means by which the data will be collected, analyzed, and interpreted. Provide information on statistical analysis whenever applicable. Describe any new methodology and its advantage over existing methodologies. This section however should NOT be just a compilation of protocol and methods. It should also present the logic strategy of the research plan. For instance, one may discuss the sensitivity, the specificity and logistics of an enzyme assay, not just the incubation conditions, the concentration of the buffers, etc. Provide a sequence or time-table for the proposed investigations. If expert consultants and collaborators are mentioned, make certain to include collaborative agreement or supporting letters in the Appendix.

E. Anticipated Results

Estimate the extent to which anticipated results would satisfy the original hypothesis and how those results would be important for planning the next steps in the research plan. Discuss the potential

pitfalls, difficulties and limitations of the proposed procedures and provide alternative approaches if the original approaches do not work.

#### F. Human Subjects

Provide a detailed description of the proposed involvement of human subjects in the work outlined above in the Research Design and Method Section. Describe plans for the recruitment of subjects, the consented procedures to be followed and Data and Safety Monitoring. Describe any potential risk (physical, psychological, social, legal, or other) and assess their likelihood and seriousness. Describe the procedures for protecting against or minimizing any potential risks and assess their likely effectiveness. Discuss why the risks to subjects are reasonable in relation to the anticipated benefits and in relation to the importance of the knowledge that may reasonably be expected to be gained from the study. Attach the IRB approved document along with its original application contents in Appendix. **Assure the title and execution period on official document of approval are consistent with this application.**

#### G. Gene Recombination

Provide a detailed description of the proposed involvement of gene recombination in the work outlined above in the Research Design and Methods Section. Describe any potential risks (physical, psychological, social, legal, or other) and assess their likelihood and seriousness. Describe the procedures for protecting against or minimizing any potential risks and assess their likely effectiveness. Attach an approved document from the institutional biosafety committee in Appendix. **Assure the title and execution period on official document of approval are consistent with this application.**

#### H. Microbes in Risk Group 2, 3, 4

Provide a detailed description of the proposed involvement of microbes in risk group 2, 3, 4 in the work outlined above in the Research Design and Methods Section. Describe any potential risks (pathogenicity, mode of transmission and host range...etc.) and assess their likelihood and seriousness. Describe the availability of effective preventive measures or treatment (e.g., vaccines; antibiotics; food and water hygiene; chemotherapeutic agents...etc.) or procedures for protecting against or minimizing any potential risks. Attach an approved document from the institutional biosafety committee in

**Appendix. Assure the title and execution period on official document of approval are consistent with this application.**

**I. Animal Investigations**

If animals are involved, indicate what species are to be used, whether non-human primates are to be used and list the special justifications for their use. Indicate all details for the care, use, treatment, and disposal of all animals. Observe the law or regulation for animal protection during the project period. Attach the IACUC approved document along with the description of animal ethics 3Rs (Replace, Reduce and Refine) in Appendix. **Assure the title and execution period on official document of approval are consistent with this application.**

**J. Potential Hazards**

Point out any procedures, situations, or materials that may be hazardous to personnel and the precautions to be exercised.

**K. References**

Include a complete citation for each reference in the text. Each literature citation must include the names of all authors, title, source (book or journal), volume number, page numbers and year of publication. Make every attempt to be judicious in compiling a selected, relevant, and current list of literature citations.

**FORM SECTION 5b – Project Executed by NHRI Researchers (do not exceed 10 pages)**

For those who have genuine cooperation with NHRI (i.e. NHRI researchers do execute certain part of the proposed work, not merely providing consultants, materials/consumables or animal facility), and NHRI researchers do apply for NHRI intramural matching fund, provide cooperation plan of NHRI researchers in this section including preliminary data, research design and methods, what will be achieved by NHRI researchers in this proposed application, how NHRI researchers will cooperate with the PI, and what will be contributed to NHRI intramural research. Please refer to the Chinese manual on page I-2~ I-3 and II-6 for details.

Please be aware of that NHRI researchers are welcome to participate in multiple extramural grants, but each NHRI researcher can apply or conduct only one NHRI intramural matching fund at the same time.

Indicate “N/A” if there is no NHRI participant who will apply for NHRI intramural matching fund.

6. FORM SECTION 6 - Institutional Environment and Resources

- A. Briefly describe the features of the institutional environment that are relevant to the effective implementation of the research project.
- B. Describe available resources such as clinical and laboratory facilities, participating and affiliated units; indicate their capabilities, relative proximity, and extent of availability to the project.
- C. List the most important equipment items already available for this project, noting the pertinent capabilities of each.

7. FORM SECTIONS 7a and 7b - Detailed Budget Requested for Initial Year

- ※Note : For those who have genuine cooperation with NHRI, itemize budget requested for NHRI intramural matching fund in this section as well and clearly justify which items are requested for extramural grant and which items are requested for NHRI intramural matching fund.  
(Overseas Travel, Equipment, and Overhead budget cannot be included in NHRI intramural matching fund.)

FORM SECTION 7a - Initial Year Budget for Personnel

- A. Salary supplement of NT\$ 10,000 per month could be listed for Principal Investigator. No payment is allowed for either Co-PIs or Investigators.
- B. List the names of the personnel involved in the project during the initial year for whom salary or payment is requested.
- C. Identify the role of each individual listed. Describe their specific functions under the Justifications section.
- D. For the labor insurance premium and the health insurance premium,



refer to the Chinese manual regarding budget limitation on page II-13 to II-21.

#### FORM SECTION 7b - Initial Year Budget for Other Categories

- A. Travel: Indicate domestic or overseas travel. State under the Justifications section, the purpose of any travel, giving the number of trips involved and the number of individuals for whom funds are requested.
  - B. Consumables: Itemize consumables in separate categories such as glassware, chemicals, radioisotopes, etc. For each item, give the unit price, amount purchased, and total cost requested under the Justifications section. Categories in amounts less than NT\$ 10,000 do not have to be itemized. Explain and justify the purchase of unusual consumable requests.
  - C. Equipment: List separately each item of equipment. Justify the purchase under the Justifications section.
  - D. Additionally, read the Chinese guidelines regarding the budget limitation for detailed information on page II-13 to II-18, and meet those regulations to conduct projects.
8. FORM SECTIONS 8a and 8b - Equipment and Budget Requested for Entire Proposed Project Period

#### FROM SECTION 8a - Equipment Requested for Entire Proposed Project Period

- A. For equipment category, list all of the items and budget requested for the initial year and the additional years of support requested.
- B. Under the Justifications section, explain and justify the purchase of major equipment in subsequent years following the initial year.
- C. For those who will apply for NHRI intramural matching fund, Equipment cannot be included.

#### FORM SECTION 8b - Budget Requested for Entire Proposed Project Period

- A. For each budget category, give the amount requested for the initial

year and the additional years of support requested.

- B. Under the Justifications section, identify and justify any significant increase or decrease over the initial project period. (including NHRI matching fund, if any)

#### 9. FORM SECTION 9 - Other Support

- A. Every individual listed on Form Section 2a is required to provide a list of all governmental grants, contracts, fellowships, and other forms of support, in which the individual serves as a Principal Investigator or Responsible Investigator. For each individual, list all supports that were funded in the **past three years** (from 2017 until now) and all **current pending** applications. Upload all the abstracts of the funded grants in the past three years and of the current pending applications in appendix, not limited to the ones supported by NHRI. For individuals without other support, please indicate “None”.

※ Note : NHRI researchers should also list research projects supported by NHRI intramural budget especially for those who will apply for the intramural matching fund along with the proposed application.

- B. Note the extent of potential overlaps (financial and/or scientific) of other support with the proposed application. If there is no potential overlap, please indicate “None” in “Overlap with this Application” column. Failure to provide full and accurate information on such overlaps may result in disqualification of the application.
- C. For a long-term project, fill in the **entire** project period (e.g. yyyy/mm/dd~ yyyy/mm/dd) in “Duration of support” column.

#### 10. FORM SECTION 10 - Biographical Sketches

- A. Give biographical information for key professional personnel (**4 pages for each person**) listed on FORM SECTION 2a, beginning with the Principal Investigator. If the biographical sketches cannot sufficiently provide key professional personnel’s information, it may result in disqualification of the application.

#### B. Education

Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.

**C. Statement of Qualifications for Innovative Research Grant (For PI only)**

The Innovative Research Grant is dedicated to encouraging independent researchers in national health research fields. The PI's past or ongoing work must have resulted in or will result in significant improvement in medical and health research. State the PI's status of independence and scientific achievement.

**D. Research and Professional Positions Held in Chronological Sequence**

List in chronological order, previous employment, experience, and honors. Conclude with present position. Outline previous experience relevant to proposed research.

**E. Record of Serving as Principal Investigator**

Outline previous experience of serving as Principal Investigator in charge of some scientific projects. List the source of support, project number, title, duration and budget for entire project period, for each scientific project. (If there is no previous experience of serving as PI, please indicate "None".)

**F. Publications**

Attach a publication list, in chronological order, of all authors, title, volume number, page numbers, and year of publication, for all relevant publications during the past three years, as well as representative earlier publications pertinent to this application. Mark the publications / manuscripts submitted or accepted for publications that have resulted from NHRI funded grant. Patents, invention reports, technology transfer or licensing can also be included. (If there is no publication, please indicate "None".)

**11. FORM SECTION 11 - Certificate of Agreement for the Application**

- A. Principal Investigator's statement: To pursue this grant, the PI must meet the required qualification and guarantee that there is no falsification or misrepresentation in this application. Examine the statement of assurance and have it endorsed both by the PI and the head of applicant organization.

- B. The key professional personnel listed on FORM SECTION 2a must sign the certificate of agreement to promise that they have provided full and accurate information and will provide the support during the entire proposed project period.

## 12. Checklist

Use the checklist to check each item in detail before submitting the application. Make certain that the application meets the administrative criteria for IRG programs. If the application does not meet the administration criteria, it will affect the results of the review or be returned without review.

## 13. Appendix

- A. The Appendix is not to be used to circumvent the page limitation in the Research Plan.
- B. The Appendix should include the official documents of approval by all the review boards involving human subjects, vertebrate animals, microbes in risk group 2, 3, 4, and gene recombination, previous review comments, abstract of the previous NHRI application, previous abstracts of progress reports from the grants funded by NHRI, the abstracts of the funded grants in the past three years and the abstracts of current pending applications, the collaborative agreement or supporting letters from the sponsor or cooperation laboratory, and quotations.
- C. To submit any original color photographs of those shown in the Research Plan Section as supporting documents, 5 hard copies of them can be sent to NHRI.
- D. No more than 10 publications, manuscripts submitted or accepted for publication, patents, invention reports, and other printed materials may be submitted.





## 貳、研究發展獎助計畫申請書撰寫說明

### Guidelines for Career Development Grant Application

#### I. GENERAL INFORMATION

1. In preparing the application, **use English only** and avoid jargon. For terms not universally known, spell out the term the first time it is used followed by the appropriate abbreviation in parentheses; the abbreviation may be used thereafter.
2. Type the application single spaced, and stay within the margin limitations indicated on the form pages. The type must be clear, readily legible and font size is **12 point** (approximately 1/8 inch in height for capital letters). There must be no more than six lines of text within a vertical inch. **Do not reduce font size or line spacing to circumvent the page limitations.**
3. Use black type that can be copied. Provide clear figures, graphs, diagrams, charts, and tables, and include appropriate legends. All photographs or other illustrative materials must be presented in the body of the application in a clear and readable manner, the font size should not be smaller than 9 point, that can be photocopied. When it is essential to illustrate materials in their original forms (color or size), 5 hard copies of the original materials, which have been shown in the Research Plan Section, can be sent to the National Health Research Institutes (NHRI) as supporting documents.
4. If there is any sponsor, consultant or cooperation laboratory listed in this application, please provide the collaborative agreement or supporting letters.
5. **Stay within the page limitations. Any page beyond the limit will be removed by NHRI staff without review, which may seriously affect the review result.** A summary of the page limitations is given as follows:

#### FORM SECTION

#### PAGE LIMIT

1. Basic Information
  - a. Face Page
  - b. PI's History

1  
1

<u>FORM SECTION</u>	<u>PAGE LIMIT</u>
2. Personnel	
a. Key Professional Personnel	as needed
b. Supporting Staff	as needed
3. Abstracts	
a. in Chinese	1
b. in English	1
4. Response to Previous Review Comments	<b>5</b>
5. Research Plan	
a. Research Plan of the Application	
(A) to (E) (Specific Aims to Anticipated Results)	13
(F) to (K) (Human Subjects to Reference)	as needed
b. Project Executed by NHRI Researchers	10
6. Institutional Environment and Resources	1
7. Detailed Budget Requested for Initial Year	
a. Initial Year Budget for Personnel	as needed
b. Initial Year Budget for Other Categories	as needed
8. Equipment and Budget Requested for Entire Proposed Project Period	
a. Equipment Requested for Entire Proposed Project Period	as needed
b. Budget Requested for Entire Proposed Project Period	as needed
9. Other Support	as needed
10. Biographical Sketches	4 each
11. Certificate of Agreement for the Application	as needed
12. Checklist	1
13. Appendix (publications related : <b>no more than 10 materials</b> )	

6. Use continuation pages if necessary.

7. Edit page number consecutively at the right bottom for each section respectively.

## II. SPECIFIC INSTRUCTIONS - FORMS

### 1. FORM SECTIONS 1a and 1b - Basic Information

#### FORM SECTION 1a - Face Page

A. Complete all items on the face page of the application. This is page 1 of the application.

- B. Title of Application: Choose a title that is descriptive and specific rather than general. Do not exceed 100 typewriter spaces, including the spaces between words and punctuation. **Be aware of that this application fits in the research fields listed in the Chinese manual on page I-2.**
- C. Type of Application: Choose one type for this application; if this application is being submitted to NHRI for the first time, check “New”; if this application is revised to replace an unfunded version of a new application submitted previously to NHRI, check “Revision or Amendment”.

A New application must have a different title from any other NHRI project with the same Principal Investigator. If the application is a Revision or Amendment, please also write down the title of the prior application and the year of its submission. If the specific aims of the project have changed significantly, use a new title.

- D. Entire Proposed Project Period: Request **4 years** of support for the entire proposed project period.
- E. Budget for Proposed Project: The upper limit of budget requested for the entire duration of the proposed project is NT\$ 8,000,000. The Principal Investigator can allocate the budget for the whole period as required by research needs. For those who have genuine cooperation with NHRI researchers, besides 8 million for the entire project period for extramural grant, another one million maximum for intramural matching fund per year can be requested.
- F. Human Subjects: If the activities involving human subjects are planned at any time during the proposed project period, either at the applicant organization or at any other performance site or collaborating institution, check “Yes”. An official document of approval along with its original application contents<sup>\*</sup>, including **Data and Safety Monitoring Plan**, for the proposed activities from the Institutional Review Board (IRB; e.g., The Committee on Clinical Research, etc.) should be submitted at the same time of this application. If the project is conducted in multiple hospitals or organizations, the IRB approved document is required from each one. If the certification of IRB is unavoidably delayed, the IRB pending sheet and IRB application contents should be submitted with the grant application. The IRB approved document should be presented by **July 1<sup>st</sup>, 2020**. If the certification, the pending sheet, or the application contents of IRB could not be submitted before deadlines, it might affect the outcome of

the review.

\*Note: The Biographical Sketch of investigator is part of the proposal, thus the Biographical Sketch in the original application contents submitted to the Institutional Review Board should not be attached.

- G. Gene Recombination: If the activities involving gene recombination are planned at any time during the proposed project period, either at the applicant organization or at any other performance site or collaborating institution, check “Yes”. An official document of approval for the proposed activities by an institutional biosafety committee should be submitted along with the application. If the certification is unavoidably delayed, the pending sheet should be submitted with the application. The committee approved document should be presented by **July 1<sup>st</sup>, 2020**. If the certification or the pending sheet could not be submitted before deadlines, it might affect the outcome of the review.
- H. Microbes in Risk Group 2, 3, 4: If the activities involving microbes in risk group 2, 3, 4 are planned at any time during the proposed project period, either at the applicant organization or at any other performance site or collaborating institution, check “Yes”. An official document of approval for the proposed activities by an institutional biosafety committee should be submitted along with the application. If the certification is unavoidably delayed, the pending sheet should be submitted with the application. The approved document should be presented by **July 1<sup>st</sup>, 2020**. If the above mentioned documents could not be submitted before deadlines, it might affect the outcome of the review.
- I. Vertebrate Animals: If the activities involving vertebrate animals are planned at any time during the proposed project period, either at the applicant organization or at any other performance site or collaborating institution, check “Yes”. The description of animal ethics 3Rs (Replace, Reduce and Refine) and an official document of approval for the proposed activities by the Institutional Animal Care and Use Committee (IACUC) should be submitted along with the application. If the certification of IACUC is unavoidably delayed, the IACUC pending sheet should be submitted with the application. The IACUC approved document should be presented by **July 1<sup>st</sup>, 2020**. If the certification or the pending sheet of IACUC could not be submitted before deadlines, it might affect the outcome of the review.

FORM SECTION 1b - PI's History



- A. List and provide a brief description of the projects in which the PI has participated in.
- B. Three letters of recommendation must be supplied. One of them should be from the primary adviser for the highest degree of the PI. If it is not available, please describe the reasons and provide a substitute letter of recommendation. List all the recommenders' name, position title, organization and relationship with the applicant in this section. The letters of recommendation may be sent to NHRI directly to:

NHRI Scientific Review Committee  
c/o Department of Research Planning and Development  
National Health Research Institutes  
35, Keyan Road, Zhunan Town, Miaoli County 350, Taiwan, ROC

If the letters of recommendation cannot be submitted by April 10<sup>th</sup>, 2020, they should be presented no later than **July 1<sup>st</sup>, 2020**.

## 2. FORM SECTIONS 2a and 2b - Personnel

List all individuals who will participate in the scientific execution of the project, whether or not salaries are offered by this project.

### FORM SECTION 2a- Key Professional Personnel

Key Professional Personnel shall be defined as, and also shall be limited as, individual who contribute substantively to the scientific development, and execution of the project. Typically, these individuals have the doctoral or other professional degree and act as the Principal Investigator (PI), Co-Principal Investigators (Co-PIs), and Investigators. Detailed qualifications of the PI, Co-PIs and Investigators are stated in the Chinese manual on page II-2~II-3. For those who have genuine cooperation with NHRI researchers, who will apply for NHRI intramural matching fund as well, please be sure to list cooperation NHRI researchers in SECTION 2a, and, among them, choose only one who will apply for NHRI intramural matching fund.

### FORM SECTION 2b- Supporting Staff

Supporting Staff is defined as individual(s) who will participate in the project execution, other than the Key Professional Personnel described

above, i.e. postdoctoral fellows (for those who have been recruited, i.e. other than “to be hired”, please fill out the Biographical Sketch), graduate students, undergraduate students, or research assistants.

For every individual listed in Form 2a and 2b, include the position title, the organization and the highest degree. Under the Role on Project describe their specific function.

Estimate the percent effort of all personnel on the project. It should be shown in percentage based on the **working hours for each individual**. For instance, “30 percent effort” means that this individual will devote 30% of his/her working hours on this project, “100 percent effort” means that this individual is full time working on this project. For those who working part time on this project, such as **part time research staff, PI or other key professional personnel, the percent effort should not be 100**.

### 3. FORM SECTIONS 3a and 3b - Abstracts in Chinese and in English

State the application’s broad, long-term objectives and specific aims, making reference to the health relatedness of the project. Describe concisely the research design and methods for achieving these goals.

### 4. FORM SECTION 4 - Response to Previous Review Comments

If this application is being submitted to NHRI for the first time, please upload the file indicating “N/A” in this section.

For a revised/amended application, a concise description (within 5 pages) of responses to the previous review comments in the past 5 years should be provided, and the previous review comments in the past 5 years should be uploaded as appendixes. In this statement, specify changes that have been made or justify why suggested changes were not made. Point out any additions, deletions, or revision, and any responses to criticism for this project.

**For a revised/amended application, this section is very important. Those who respond to each criticism or suggestion carefully and indicate how and where the application has been improved leave a favorable impression on the review committee. Disregarding the previous review comments by submitting a “New” application may affect the results of the review.**

## 5. FORM SECTION 5 - Research Plan

### FORM SECTION 5a – Research Plan of the Application

Include sufficient, but concise information to facilitate an effective review. Be specific and informative yet avoiding redundancies. The Research Plan of each project should consist of in the order of all the following components: (A) specific aims, (B) background and significance, (C) previous and current studies, (D) research design and methods, (E) anticipated results, (F) human subjects, (G) gene recombination, (H) microbes in risk group 2, 3, 4, (I) animal investigations, (J) potential hazards and (K) references. **The absolute maximum number of pages for part (A) to (E) is 13 pages, which will be strictly enforced.** Mark in bold type what was changed or improved based on the previous review comments or results of previous study for “Revision or Amendment” application.

※Note : For those who have genuine cooperation with NHRI researchers, who will apply for NHRI intramural matching fund as well, please indicate which part of the research project is executed by NHRI researchers in FORM SECTION 5b.

#### A. Specific Aims (One page is recommended)

Outline the broad, long-term objectives; then, list and describe concisely and realistically what the specific research is intended to accomplish and any hypotheses to be tested. Avoid giving a long list of aims that are unachievable and over ambitious.

#### B. Background and Significance (Part B+C : do not exceed 6 pages is recommended)

Briefly sketch the background of the present proposal, critically evaluate existing knowledge, and specifically identify the gaps which the project is intended to fill. State concisely the importance of the research described in this application, especially in terms of health relevance, scientific contribution, uniqueness and originality.

#### C. Previous and Current Studies (Part B+C : do not exceed 6 pages is recommended)

A progress report is required for the Principal Investigator. A report of the Principal Investigator's previous studies and all projects in which she/he has participated is required.

Provide an account of the Principal Investigator's preliminary studies pertinent to the application and any other information that will help to demonstrate the experience and competence of the investigator to pursue the proposed project. Recount the history of the Principal Investigator, particularly with reference to the competence in pursuing this project. The title and complete references to appropriate publications and manuscripts submitted or accepted for publication may be listed.

#### D. Research Design and Methods

Describe the research design and the procedures to be used to accomplish the specific aims of the project. Include the means by which the data will be collected, analyzed, and interpreted. Provide information on statistical analysis whenever applicable. Describe any new methodology and its advantage over existing methodologies. This section however should NOT be just a compilation of protocol and methods. It should also present the logic strategy of the research plan. For instance, one may discuss the sensitivity, the specificity and logistics of an enzyme assay, not just the incubation conditions, the concentration of the buffers, etc. Provide a sequence or timetable for the proposed investigations. If expert consultants and collaborators are mentioned, make certain to include collaborative agreement or supporting letters in the Appendix.

#### E. Anticipated Results

Estimate the extent to which anticipated results would satisfy the original hypothesis and how those results would be important for planning the next steps in the research plan. Discuss the potential pitfalls, difficulties and limitations of the proposed procedures and provide alternative approaches if the original approaches do not work.

#### F. Human Subjects

Provide a detailed description of the proposed involvement of human subjects in the work outlined above in the Research Design and Method Section. Describe plans for the recruitment of subjects, the consented procedures to be followed and Data and Safety Monitoring.

Describe any potential risk (physical, psychological, social, legal, or other) and assess their likelihood and seriousness. Describe the procedures for protecting against or minimizing any potential risks and assess their likely effectiveness. Discuss why the risks to subjects are reasonable in relation to the anticipated benefits and in relation to the importance of the knowledge that may reasonably be expected to be gained from the study. Attach the IRB approved document along with its original application contents in Appendix. **Assure the title and execution period on official document of approval are consistent with this application.**

#### G. Gene Recombination

Provide a detailed description of the proposed involvement of gene recombination in the work outlined above in the Research Design and Methods Section. Describe any potential risks (physical, psychological, social, legal, or other) and assess their likelihood and seriousness. Describe the procedures for protecting against or minimizing any potential risks and assess their likely effectiveness. Attach an approved document from the institutional biosafety committee in Appendix. **Assure the title and execution period on official document of approval are consistent with this application.**

#### H. Microbes in Risk Group 2, 3, 4

Provide a detailed description of the proposed involvement of microbes in risk group 2, 3, 4 in the work outlined above in the Research Design and Methods Section. Describe any potential risks (pathogenicity, mode of transmission and host range...etc) and assess their likelihood and seriousness. Describe the availability of effective preventive measures or treatment (e.g., vaccines; antibiotics; food and water hygiene; chemotherapeutic agents...etc.) or procedures for protecting against or minimizing any potential risks. Attach an approved document from the institutional biosafety committee in Appendix. **Assure the title and execution period on official document of approval are consistent with this application.**

#### I. Animal Investigations

If animals are involved, indicate what species are to be used, whether non-human primates are to be used and list the special justifications for their use. Indicate all details for the care, use, treatment, and disposal of all animals. Observe the law or regulation for animal



protection during the project period. Attach the IACUC approved document along with the description of animal ethics 3Rs (Replace, Reduce and Refine) in Appendix. **Assure the title and execution period on official document of approval are consistent with this application.**

#### J. Potential Hazards

Point out any procedures, situations, or materials that may be hazardous to personnel and the precautions to be exercised.

#### K. References

Include a complete citation for each reference in the text. Each literature citation must include the names of all authors, title, source (book or journal), volume number, page numbers and year of publication. Make every attempt to be judicious in compiling a selected, relevant, and current list of literature citations.

#### FORM SECTION 5b – Project Executed by NHRI Researchers (do not exceed 10 pages)

For those who have genuine cooperation with NHRI (i.e. NHRI researchers do execute certain part of the proposed work, not merely providing consultants, materials/consumables or animal facility), and NHRI researchers do apply for NHRI intramural matching fund, provide cooperation plan of NHRI researchers in this section including preliminary data, research design and methods, what will be achieved by NHRI researchers in this proposed application, how NHRI researchers will cooperate with the PI, and what will be contributed to NHRI intramural research. Please refer to the Chinese manual on page I-2~I-3 and II-6 for details.

Please be aware of that NHRI researchers are welcome to participate in multiple extramural grants, but each NHRI researcher can apply or conduct only one NHRI intramural matching fund at the same time.

Indicate “N/A” if there is no NHRI participant who will apply for NHRI intramural matching fund.

6. FORM SECTION 6 - Institutional Environment and Resources

- A. Briefly describe the features of the institutional environment that are relevant to the effective implementation of the research project.
- B. Describe available resources such as clinical and laboratory facilities, participating and affiliated units; indicate their capabilities, relative proximity, and extent of availability to the project.
- C. List the most important equipment items already available for this project, noting the pertinent capabilities of each.

7. FORM SECTIONS 7a and 7b - Detailed Budget Requested for Initial Year

※Note : For those who have genuine cooperation with NHRI, itemize budget requested for NHRI intramural matching fund in this section as well and clearly justify which items are requested for extramural grant and which items are requested for NHRI intramural matching fund.  
(Overseas Travel, Equipment, and Overhead budget cannot be included in NHRI intramural matching fund.)

FORM SECTION 7a - Initial Year Budget for Personnel

- A. Salary supplement of NT\$ 10,000 per month could be listed for Principal Investigator. No payment is allowed for either Co-PIs or Investigators.
- B. List the names of the personnel involved in the project during the initial year for whom salary or payment is requested.
- C. Identify the role of each individual listed. Describe their specific functions under the Justifications section.
- D. For the labor insurance premium and the health insurance premium, refer to the Chinese manual regarding budget limitation on page II-13 to II-21.

FORM SECTION 7b - Initial Year Budget for Other Categories

- A. Travel: Indicate domestic or overseas travel. State under the Justifications section the purpose of any travel, giving the number of

trips involved and the number of individuals for whom funds are requested.

- B. Consumables: Itemize consumables in separate categories such as glassware, chemicals, radioisotopes, etc. For each item, give the unit price, amount purchased, and total cost requested under the Justifications section. Categories in amounts less than NT\$ 10,000 do not have to be itemized. Explain and justify the purchase of unusual consumable requests.
- C. Equipment: List separately each item of equipment. Justify the purchase under the Justifications section.
- D. Additionally, read the Chinese guidelines regarding the budget limitation for detailed information on page II-13 to II-18, and meet those regulations to conduct projects.

#### 8. FORM SECTION 8a and 8b - Equipment and Budget Requested for Entire Proposed Project Period

##### FORM SECTION 8a - Equipment Requested for Entire Proposed Project Period

- A. For equipment category, list all of the items and budget requested for the initial year and the additional years of support requested.
- B. Under the Justifications section, explain and justify the purchase of major equipment in subsequent years following the initial year.
- C. For those who will apply for NHRI intramural matching fund, Equipment cannot be included.

##### FORM SECTION 8b - Budget Requested for Entire Proposed Project Period

- A. For each budget category, give the amount requested for the initial year and the additional years of support requested.
- B. Under the Justifications section, explain and justify the purchase of major equipment in subsequent years following the initial year. For other categories, identify and justify any significant increase or decrease over the initial year. (including NHRI matching fund, if any)

## 9. FORM SECTION 9 - Other Support

- A. Every individual listed on Form Section 2a is required to provide a list of all governmental grants, contacts, fellowships, and other forms of support, in which the individual serves as a Principal Investigator or Responsible Investigator. For each individual, list all supports that were funded in the **past three years** (from 2017 until now) and all **current pending** applications. Upload all the abstracts of the funded grants in the past three years and of the current pending applications in appendix, not limited to the ones supported by NHRI. For individuals without other support, please indicate “None”.

※ Note : NHRI researchers should also list research projects supported by NHRI intramural budget especially for those who will apply for the intramural matching fund along with the proposed application.

- B. Note the extent of potential overlaps (financial and/or scientific) of other support with the proposed application. If there is no potential overlap, please indicate “None” in “Overlap with this Application” column. Failure to provide full and accurate information on such overlaps may result in disqualification of the application.
- C. For a long-term project, fill in the **entire** project period (e.g. yyyy/mm/dd~ yyyy/mm/dd ) in “Duration of support” column.

## 10. FORM SECTION 10 - Biographical Sketches

- A. Give biographical information for key professional personnel (**4 pages for each person**) listed on FORM SECTION 2a, beginning with the Principal Investigator. If the biographical sketches cannot sufficiently provide key professional Personnel’s information, it may result in disqualification of the application.

### B. Education

Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.

### C. Statement of Qualifications for Career Development Grant (**For PI only**)

Briefly describe “What is your short term and/or long term research goal? ”, “Why do you choose this topic? ”, and “How will this grant help you to develop your career? ”

D. Research and Professional Positions Held in Chronological Sequence

List in chronological order, previous employment, experience, and honors. Conclude with present position. Outline previous experience relevant to proposed research.

E. Record of Serving as Principal Investigator

Outline previous experience of serving as Principal Investigator in charge of some scientific projects. List the source of support, project number, title, duration and budget for entire project period, for each scientific project. (If there is no previous experience of serving as PI, please indicate “None”.)

F. Publications

Attach a publication list, in chronological order, of all authors, title, volume number, page numbers, and year of publication, for all relevant publications during the past three years, as well as representative earlier publications pertinent to this application. Patents, invention reports, technology transfer or licensing can also be included. (If there is no publication, please indicate “None”.)

11. FORM SECTION 11 - Certificate of Agreement for the Application

- A. Endorsement for the Principal Investigator: In order to execute this grant successfully, both of the director of the sponsoring department/institution and the president of the applicant organization must make the commitment that if this application is awarded, the PI will have the space as described in the application and non-academic activities of the PI should be reduced.
- B. Principal Investigator’s statement: To pursue this grant, the PI must meet the required qualification and guarantee that there is no falsification or misrepresentation in this application. Examine the statement of assurance and have it endorsed.



- C. The key professional personnel listed on FORM SECTION 2a must sign the certificate of agreement to promise that they have provided full and accurate information and will provide the support during the entire proposed project period.

## 12. Checklist

Use the checklist to check each item in detail before submitting the application on CDG program. If the application doesn't meet the administration criteria, it will affect the results of the review or be returned without review.

## 13. Appendix

- A. The Appendix is not to be used to circumvent the page limitation in the Research Plan.
- B. The Appendix should include the official documents of approval by all the review boards involving human subjects, vertebrate animals, microbes in risk group 2, 3, 4, and gene recombination, previous review comments, the abstracts of the funded grants in the past three years and the abstracts of current pending applications, the collaborative agreement or supporting letters from the sponsor or cooperation laboratory, and quotations.
- C. To submit any original color photographs of those shown in the Research Plan Section as supporting documents, 5 hard copies of them can be sent to NHRI.
- D. No more than 10 publications, manuscripts submitted or accepted for publication, patents, invention reports, and other printed materials may be submitted.

## 格式一 創新研究計畫申請書格式

Serial No.

LEAVE BLANK

**國家衛生研究院 創新研究計畫申請書**  
**National Health Research Institutes**  
**Innovative Research Grant Application**

Application No.

LEAVE BLANK

**Form Section 1 - Face Page**

(page limit : 1 page)

Title of Application	(in Chinese)			
	(in English)			
Type of Application	<input type="checkbox"/> New <input type="checkbox"/> Revision or Amendment <input type="checkbox"/> Renewal <input type="checkbox"/> Revised Renewal The prior application was submitted in ____ (A. D. year), with the title: (in English)			
Fields of Research	(須符合申請作業手冊 I-2 頁所列研究重點)			
Applicant Organization	(in Chinese)	學 院		
	(in English)	Institute		
	系／所／科			
	Department			
Principal Investigator	姓名		職 稱	
	Name		Position Title	
Mailing Address (in Chinese)	(請以中文填寫申請機構/單位之聯絡地址及郵遞區號)			
Telephone No.			FAX No.	
E-mail Address				
Entire Proposed Project Period	From January 1, 2021 To December 31, _____ (Year)			
Cooperate with NHRI Researchers <input type="checkbox"/> Yes <input type="checkbox"/> No      Apply for NHRI Matching Fund <input type="checkbox"/> Yes <input type="checkbox"/> No				
Budget Requested for Initial Year			NT\$	
Budget Requested for Entire Proposed Project Period			NT\$	
Project involving	Human Subjects <input type="checkbox"/> Yes <input type="checkbox"/> No		Gene Recombination <input type="checkbox"/> Yes <input type="checkbox"/> No	
	Microbes in Risk Group 2, 3, 4 <input type="checkbox"/> Yes <input type="checkbox"/> No		Vertebrate Animals <input type="checkbox"/> Yes <input type="checkbox"/> No	

**Form Section 2a – Key Professional Personnel**

Name		Position Title/ Organization	Highest Degree	% Effort	Role on Project
Chinese	English				

**Form Section 2a – Key Professional Personnel****(Continuation Page)**

Name		Position Title/ Organization	Highest Degree	% Effort	Role on Project
Chinese	English				



**Form Section 2b – Supporting Staff**

Name		Position Title/ Organization	Highest Degree	% Effort	Role on Project
Chinese	English				

**Form Section 2b – Supporting Staff****(Continuation Page)**

Name		Position Title/ Organization	Highest Degree	% Effort	Role on Project
Chinese	English				

## Form Section 3a - Abstract in Chinese

page limit : 1 page

## Form Section 3b - Abstract in English

page limit : 1 page

## **Form Section 4 - Progress Report and Response to Previous Review Comments**

**For a revised or renewal application, this section is very important. Those who respond to each criticism or suggestion carefully and indicate how and where the application has been improved leave a favorable impression on the review committee. Disregarding the previous review comments or without progress report by submitting a “New” application may affect the results of the review.**

**For a new application proposed by the PI who ever got NHRI grants before, it is also required to briefly describe the progress made during previous grant period.**

**page limit : Progress Report – 3 pages ; Response to Previous Review Comments – 5 pages**



**Form Section 4 - Progress Report and Response to Previous Review Comments**  
**(Continuation Page)**

## **Form Section 5a - Research Plan of the Application**

**Complete this section in the order of all the following components: (A) Specific Aims, (B) Background and Significance, (C) Previous and Current Studies, (D) Research Design and Methods, (E) Anticipated Results, (F) Human Subjects, (G) Gene Recombination, (H) Microbes in Risk Group 2, 3, 4, (I) Animal Investigations, (J) Potential Hazards, and (K) References. Please specify each item in separate paragraphs.**

**page limit : (A) to (E) — 13 pages**

**(B) + (C) — 6 pages (recommended)**

**(F) to (K) — as needed**



## Form Section 5b - Project Executed by NHRI Researchers

**Provide cooperation plan of NHRI researchers in this section including preliminary data, research design and methods, what will be achieved by NHRI researchers in this proposed application, how NHRI researchers will cooperate with the PI, and what will be contributed to NHRI intramural research.**

**Indicate “N/A” if there is no NHRI participant who will apply for NHRI intramural matching fund.**

**page limit : 10 pages**

Apply for NHRI intramural matching fund   ☐ Yes   ☐ No

※ *Please be aware of that NHRI researchers are welcome to participate in multiple extramural grants, but each NHRI researcher can apply or conduct only one NHRI intramural matching fund at the same time.*



## Form Section 6 - Institutional Environment and Resources

page limit : 1 page



**Form Section 7a - Initial Year Budget for Personnel**

Name	Role on Project	Amount Requested (NT\$)		Justifications
		Monthly	Annual	

**Form Section 7a - Initial Year Budget for Personnel****(Continuation Page)**

Name	Role on Project	Amount Requested (NT\$)		Justifications
		Monthly	Annual	

**Form Section 7b - Initial Year Budget for Other Categories (Miscellaneous, Maintenance, Travel, Consumables, Overhead, and Equipment)**

Budget Categories and Items	Amount (in NT\$)	Justifications

**Form Section 7b - Initial Year Budget for Other Categories (Miscellaneous, Maintenance, Travel, Consumables, Overhead, and Equipment) (Continuation Page)**

Budget Categories and Items	Amount (in NT\$)	Justifications

**Form Section 8a - Equipment Requested for Entire Proposed Project Period (in NT\$)**

Year	Equipment Item (both in English and in Chinese)	Amount (in NT\$)	Justifications

**Form Section 8a - Equipment Requested for Entire Proposed Project Period (in NT\$)**  
**(Continuation Page)**

Year	Equipment Item (both in English and in Chinese)	Amount (in NT\$)	Justifications



**Form Section 8b - Budget Requested for Entire Proposed Project Period (in NT\$)**

Budget Categories	1st Year	Additional Years of Support Requested			
		2nd	3rd	4th	5th
1. Personnel					
2. Miscellaneous					
3. Maintenance					
4. Travel					
5. Consumables					
6. Overhead *					
7. Equipment					
<b>Total</b>					

\* Overhead (6.)  $\leq$  10% of (1.~5.)

**Total for Entire Proposed Project Period: NT\$**

**Justifications**

Identify and justify any significant increase or decrease over the initial project period for the extramural grant.



Form Section 8b - Budget Requested for Entire Proposed Project Period (in NT\$)

Budget Categories	1st Year		Additional Years of Support Requested			
			2nd		3rd	
	Extra	Intra	Extra	Intra	Extra	Intra
1.Personnel						
2.Miscellaneous						
3.Maintenance						
4.Travel						
5.Consumables						
6.Overhead*						
7.Equipment						
Total						

\* Overhead (6) ≤ 10% of (1~5)

Total Extramural Grant Budget for Entire Proposed Project Period: NT\$

Total Intramural Matching Fund for Entire Proposed Project Period: NT\$

Total Extramural and Intramural Budget for Entire Proposed Project Period: NT\$

Justifications

Identify and justify any significant increase or decrease over the initial project period for the extramural grant and intramural matching fund.

Form Section 8b - Budget Requested for Entire Proposed Project Period (in NT\$)

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**Form Section 9 - Other Support**

Name / Role on Project	Source of Support	Title of Support	Funding (in NT\$)		Duration of Support	Funded / Pending	Overlap with this Application
			Current Year	Total			

**Form Section 9 - Other Support****(Continuation Page)**

Name / Role on Project	Source of Support	Title of Support	Funding (in NT\$)		Duration of Support	Funded / Pending	Overlap with this Application
			Current Year	Total			



**Form Section 10 - Biographical Sketches**

(page limit : 4 pages for each person)

姓 名		ID No.(身份証或護照字號)	
Name (in Print)		Date of Birth (mm/dd/yyyy)	
Gender	<input type="checkbox"/> Male <input type="checkbox"/> Female		
Education:			
Institution and Location	Degree	Year	Field of Study

Complete this section in the order of the following components:

- (1) Statement of Qualifications for Innovative Research Grant (For PI only)
- (2) Research and Professional Positions Held in Chronological Sequence
- (3) Record of Serving as Principal Investigator
- (4) Publications (mark the publications / manuscripts submitted or accepted for publication that have resulted from NHRI funded grant). Patents, invention reports, technology transfer or licensing can also be included.



## Form Section 11 –Certificate of Agreement for the Application

Title of Application	(in Chinese)		
	(in English)		
Applicant Organization	(in Chinese)		系／所／科
	(in English)		Department
Principal Investigator	姓名		職稱
	Name		Position Title
Entire Proposed Project Period	From January 1, 2021 To _____, _____ (Month) (Day) (Year)		
Principal Investigator's statement of Assurance:			
<p>The research proposed in this application has not been awarded any financial support by any funding agency. I am aware that any falsification, misrepresentation or withholding of information could result in administrative actions such as the dismissal of an application or the suspension and/or termination of an award, as well as other possible punitive actions.</p> <p>Signature of Principal Investigator: _____ Date: _____</p> <p>Signature of the Head of Applicant Organization: _____</p> <p>Name : (print) _____ Title : _____ Date : _____</p>			

(Use continuation pages if necessary)

### Signature of Key Professional Personnel

I hereby agree to participate in this IRG application; and have provided full and accurate information including biographical sketch and all governmental supports that were funded in the past 3 years and all current pending applications. I am aware that any falsification, misrepresentation or withholding may result in disqualification of the application.

Role on Project	Name (in English)	Organization/Department	Signature/Date

## Checklist

# CHECKLIST (IRG)

**Before submitting the proposal to the NHRI, please check the following items carefully. Make certain that the application meets the administrative criteria; any shortage or flaw may affect the review result or even the application may be returned directly without review.**

- ☐ read the Guidelines very carefully
- ☐ use the NHRI application form to apply
- ☐ conform the qualifications for Principal Investigator, Co-Principal Investigators, Investigators, and Applicant Organization to the rules of application
- ☐ use English only (except for Chinese title of application, Chinese abstract, Chinese name of biographical sketches and those items requested in Chinese)
- ☐ Be aware of that this application fits in the research fields listed in the Chinese manual on page I-2 and have description of how this proposed application fits in the research fields in FORM SECTIONS 3a and 3b
- ☐ Do not exceed 100 typewriter spaces (including the spaces between words and punctuation) for the application title
- ☐ keep the page limit for each section
- ☐ number pages consecutively at the right bottom for each section respectively
- ☐ have signatures of Principal Investigator, the Head of Applicant Organization and key professional personnel in Form Section 11
- ☐ the entire proposed project period should be 3-5 years
- ☐ budget requested for each year do not exceed NT\$3,000,000 (*and annual NHRI intramural matching fund do not exceed NT\$1,000,000, if any.*)
- ☐ the amount of each budget category is correct
- ☐ send five copies of the color photographs to NHRI if necessary
- ☐ have statement of progress report for renewed application; have responses to previous review comments for revised application; have statement of progress report of previous NHRI funded grant for new application
- ☐ include certifications of all IRB and application contents (including Data and Safety Monitoring Plan) if any human subjects involved
- ☐ include certifications of all IACUC along with description of animal ethics 3Rs if any vertebrate animals involved
- ☐ include certifications of relevant biosafety committee if any gene recombination or microbes in risk group 2, 3, 4 involved
- ☐ upload all the abstracts of funded grants in the past three years and all current pending applications, not limited to the ones supported by NHRI
- ☐ upload the previous review comments or previous abstracts of NHRI application and progress reports from NHRI grants
- ☐ provide the collaborative agreement or supporting letters if there is any sponsor, consultant or cooperation laboratory listed in this application
- ☐ besides turning in the official notification in hard copy, please send electronic files of the proposal and appendix through the online system (<http://erad.nhri.org.tw>) which is the only way for submission (including fill-in forms and upload files)

### Typing instructions:

- ☐ single space
- ☐ within the margins of limitation
- ☐ standard font size (density is 12 points) and no more than 6 lines per vertical inch
- ☐ black type
- ☐ photos or other illustrative materials must be presented in the body of the application and should be readable

## 格式二 研究發展獎助計畫申請書格式

Serial No.  
  
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國家衛生研究院 研究發展獎助計畫申請書  
 National Health Research Institutes  
 Career Development Grant Application

Application No.  
  
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Form Section 1a - Face Page

(page limit : 1 page)

Title of Application	(in Chinese)		
	(in English)		
Type of Application	<input type="checkbox"/> New <input type="checkbox"/> Revision or Amendment The prior application was submitted in ____ (A. D. year), with the title: (in English)		
Fields of Research	(須符合申請作業手冊 I-2 頁所列研究重點)		
Applicant Organization	(in Chinese)	學 院	
	(in English)	Institute	
	系/所/科		
	Department		
Principal Investigator	姓名		職稱
	Name		Position Title
Mailing Address (in Chinese)	(請以中文填寫申請機構/單位之聯絡地址及郵遞區號)		
Telephone No.		FAX No.	
E-mail Address			
Entire Proposed Project Period	From January 1, 2021 To <b>December 31, 2024</b>		
Cooperate with NHRI Researchers <input type="checkbox"/> Yes <input type="checkbox"/> No      Apply for NHRI Matching Fund <input type="checkbox"/> Yes <input type="checkbox"/> No			
Budget Requested for Initial Year	NT\$		
Budget Requested for Entire Proposed Project Period	NT\$		
Project involving	Human Subjects <input type="checkbox"/> Yes <input type="checkbox"/> No		Gene Recombination <input type="checkbox"/> Yes <input type="checkbox"/> No
	Microbes in Risk Group 2, 3, 4 <input type="checkbox"/> Yes <input type="checkbox"/> No		Vertebrate Animals <input type="checkbox"/> Yes <input type="checkbox"/> No



## Form Section 1b - PI's History and Statement of Assurance

(page limit : 1 page)

### Projects participated :

Project Period	Project Title	Funding Agency of the Project	Executive Organization	Principal Investigator	Role on Project

Recommenders	1. name / position title / organization / relationship with the applicant
	2. name / position title / organization / relationship with the applicant
	3. name / position title / organization / relationship with the applicant

**Form Section 2a – Key Professional Personnel**

Name		Position Title/ Organization	Highest Degree	% Effort	Role on Project
Chinese	English				

**Form Section 2a – Key Professional Personnel**

**(Continuation Page)**

Name		Position Title/ Organization	Highest Degree	% Effort	Role on Project
Chinese	English				

## Form Section 2b – Supporting Staff

Name		Position Title/ Organization	Highest Degree	% Effort	Role on Project
Chinese	English				

**Form Section 2b – Supporting Staff****(Continuation Page)**

Name		Position Title/ Organization	Highest Degree	% Effort	Role on Project
Chinese	English				

## Form Section 3a - Abstract in Chinese

page limit : 1 page



## Form Section 3b - Abstract in English

page limit : 1 page

## **Form Section 4 - Response to Previous Review Comments**

**For an amended application, this section is very important. Those who respond to each criticism or suggestion carefully and indicate how and where the application has been improved leave a favorable impression on the review committee. Disregarding the previous review comments by submitting a “New” application may affect the results of the review.**

**page limit : 5 pages**



## **Form Section 5a - Research Plan of the Application**

**Complete this section in the order of all the following components: (A) Specific Aims, (B) Background and Significance, (C) Previous and Current Studies, (D) Research Design and Methods, (E) Anticipated Results, (F) Human Subjects, (G) Gene Recombination, (H) Microbes in Risk Group 2, 3, 4, (I) Animal Investigations, (J) Potential Hazards, and (K) References. Please specify each item in separate paragraphs.**

**page limit : (A) to (E)— 13 pages**

**(B) + (C)— 6 pages (recommended)**

**(F) to (K)— as needed**



## Form Section 5b - Project Executed by NHRI Researchers

**Provide cooperation plan of NHRI researchers in this section including preliminary data, research design and methods, what will be achieved by NHRI researchers in this proposed application, how NHRI researchers will cooperate with the PI, and what will be contributed to NHRI intramural research.**

**Indicate “N/A” if there is no NHRI participant who will apply for NHRI intramural matching fund.**

**page limit : 10 pages**

Apply for NHRI intramural matching fund      ☐ Yes    ☐ No

*※ Please be aware of that NHRI researchers are welcome to participate in multiple extramural grants, but each NHRI researcher can apply or conduct only one NHRI intramural matching fund at the same time.*

## Form Section 6 - Institutional Environment and Resources

page limit : 1 page

**Form Section 7a - Initial Year Budget for Personnel**

Name	Role on Project	Amount Requested (NT\$)		Justifications
		Monthly	Annual	



**Form Section 7a - Initial Year Budget for Personnel****(Continuation Page)**

Name	Role on Project	Amount Requested (NT\$)		Justifications
		Monthly	Annual	

**Form Section 7b - Initial Year Budget for Other Categories (Miscellaneous, Maintenance, Travel, Consumables, Overhead, and Equipment)**

Budget Categories and Items	Amount (in NT\$)	Justifications

**Form Section 7b - Initial Year Budget for Other Categories (Miscellaneous, Maintenance, Travel, Consumables, Overhead, and Equipment) (Continuation Page)**

Budget Categories and Items	Amount (in NT\$)	Justifications

**Form Section 8a - Equipment Requested for Entire Proposed Project Period (in NT\$)**

Year	Equipment Item (both in English and in Chinese)	Amount (in NT\$)	Justifications

Form Section 8a - Equipment Requested for Entire Proposed Project Period (in NT\$)

(Continuation Page)

Year	Equipment Item (both in English and in Chinese)	Amount (in NT\$)	Justifications

**Form 8b - Budget Requested for Entire Proposed Project Period (in NT\$)**

Budget Categories	1st Year	Additional Years of Support Requested		
		2nd	3rd	4th
1. Personnel				
2. Miscellaneous				
3. Maintenance				
4. Travel				
5. Consumables				
6. Overhead *				
7. Equipment				
<b>Total</b>				

\* Overhead (6.)  $\leq 10\%$  of (1.~5.)

**Total for Entire Proposed Project Period: NT\$**

**Justifications**

Identify and justify any significant increase or decrease over the initial project period for the extramural grant.

**Form 8b - Budget Requested for Entire Proposed Project Period (in NT\$)**

**(Continuation Page)**

## Form 8b - Budget Requested for Entire Proposed Project Period (in NT\$)

If applying for NHRI matching fund

Budget Categories	1st Year		Additional Years of Support Requested							
			2nd		3rd		4th		5th	
	Extra	Intra	Extra	Intra	Extra	Intra	Extra	Intra	Extra	Intra
1.Personnel										
2.Miscellaneous										
3.Maintenance										
4.Travel										
5.Consumables										
6.Overhead*										
7.Equipment										
Total										

\* Overhead (6) ≤ 10% of (1~5)

Total Extramural Grant Budget for Entire Proposed Project Period: NT\$

Total Intramural Matching Fund for Entire Proposed Project Period: NT\$

Total Extramural and Intramural Budget for Entire Proposed Project Period: NT\$

### Justifications

Identify and justify any significant increase or decrease over the initial project period for the extramural grant and intramural matching fund.



If applying for NHRI matching fund

(Continuation Page)

Form 8b - Budget Requested for Entire Proposed Project Period (in NT\$)

**Form Section 9 - Other Support**

Name / Role on Project	Source of Support	Title of Support	Funding (in NT\$)		Duration of Support	Funded / Pending	Overlap with this Application
			Current Year	Total			

**Form Section 9 - Other Support**

(Continuation Page)

Name / Role on Project	Source of Support	Title of Support	Funding (in NT\$)		Duration of Support	Funded / Pending	Overlap with this Application
			Current Year	Total			

**Form Section 10 - Biographical Sketches**

(page limit : 4 pages for each person)

姓 名		ID No.(身份証或護照字號)	
Name(in Print)		Date of Birth (mm/dd/yyyy)	
Gender	<input type="checkbox"/> Male <input type="checkbox"/> Female		
Education:			
Institution and Location	Degree	Year	Field of Study

Complete this section in the order of the following components:

- ( 1 ) Statement of Qualifications for Career Development Grant (For PI only)
- ( 2 ) Research and Professional Positions Held in Chronological Sequence
- ( 3 ) Record of Serving as Principal Investigator
- ( 4 ) Publications (Patents, invention reports, technology transfer or licensing can also be included.)



## Form Section 11 – Certificate of Agreement for the Application

Title of Application	(in Chinese)		
	(in English)		
Applicant Organization	(in Chinese)	系／所／科	
	(in English)	Department	
Principal Investigator	姓名		職稱
	Name		Position Title
Entire Proposed Project Period	From January 1, 2021 To <b>December 31, 2024</b>		

Endorsement for the Principal Investigator (PI) :

I hereby promise that if this CDG application is awarded, the PI will have the facility support (including space) described in the application and independent research position to effectively execute this grant. Also non-academic activities of the PI will be reduced. I am aware that any falsification or misrepresentation of this application may seriously damage the credibility of the sponsoring organization.

Signature of the Head of Sponsoring Department / Institution : \_\_\_\_\_

Name : (print) \_\_\_\_\_ Title : (print) \_\_\_\_\_ Date : \_\_\_\_\_

Signature of the Head of Applicant Organization: \_\_\_\_\_

Name : (print) \_\_\_\_\_ Title : (print) \_\_\_\_\_ Date : \_\_\_\_\_

Principal Investigator's Statement of Assurance:

I hereby assure that I meet the qualifications required to apply for this CDG grant and that the proposed research to be conducted in this study has not been submitted to, nor has it received any financial support from, any other funding agency. I am also aware that any falsification, misrepresentation or withholding of any information in this application may result in administrative actions such as the dismissal of my application, termination of the award and/or possible punitive actions.

Signature of Principal Investigator : \_\_\_\_\_

Name : (print) \_\_\_\_\_ Date : \_\_\_\_\_

(Use continuation pages if necessary)

### Signature of Key Professional Personnel

I hereby agree to participate in this CDG application; and have provided full and accurate information including biographical sketch and all governmental supports that were funded in the past 3 years and all current pending applications. I am aware that any falsification, misrepresentation or withholding may result in disqualification of the application.

Role on Project	Name (in English)	Organization/Department	Signature/Date

## Checklist

# CHECKLIST (CDG)

**Before submitting the proposal to the NHRI, please check the following items carefully. Make certain that the application meets the administrative criteria; any shortage or flaw may affect the review result or even the application may be returned directly without review.**

- ☐ read the Guidelines very carefully, each investigator can conduct CDG project only once
- ☐ use the NHRI application form to apply
- ☐ conform the qualifications for Principal Investigator, Co-Principal Investigators, Investigators, and Applicant Organization to the rules of application
- ☐ use English only (except for Chinese title of application, Chinese abstract, Chinese name of biographical sketches and those items requested in Chinese)
- ☐ Be aware of that this application fits in the research fields listed in the Chinese manual on page I-2 and have description of how this proposed application fits in the research fields in FORM SECTIONS 3a and 3b
- ☐ Do not exceed 100 typewriter spaces (including the spaces between words and punctuation) for the application title
- ☐ keep the page limit for each section
- ☐ number pages consecutively at the right bottom for each section respectively
- ☐ have signatures of Principal Investigator, the Head of Applicant Organization, the Head of Sponsoring Department/Institution, and key professional personnel in Form Section 11
- ☐ 3 letters of recommendation must be supplied
- ☐ the entire proposed project period should be 4 years
- ☐ budget requested for entire proposed project period must not exceed NT\$8,000,000 (*and annual NHRI intramural matching fund do not exceed NT\$1,000,000, if any.*)
- ☐ the amount of each budget category is correct
- ☐ send five copies of the color photographs to NHRI if necessary
- ☐ have responses to previous review comments and upload these original comments as appendixes for revised application
- ☐ include certifications of all IRB and application contents (including Data and Safety Monitoring Plan) if any human subjects involved
- ☐ include certifications of all IACUC along with description of animal ethics 3Rs if any vertebrate animals involved
- ☐ include certification of relevant biosafety committee if any gene recombination or microbes in risk group 2, 3, 4 involved
- ☐ upload all the abstracts of funded grants in the past three years and all current pending applications, not limited to the ones supported by NHRI
- ☐ provide the collaborative agreement or supporting letters if there is any sponsor, consultant or cooperation laboratory listed in this application
- ☐ besides turning in the official notification in hard copy, please send electronic files of the proposal and appendix through the online system (<http://erad.nhri.org.tw>) which is the only way for submission (including fill-in forms and upload files)

### Typing instructions:

- ☐ single space
- ☐ within the margins of limitation
- ☐ standard font size (density is 12 points) and no more than 6 lines per vertical inch
- ☐ black type
- ☐ photos or other illustrative materials must be presented in the body of the application and should be readable



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