

二零二一年香港學生科學比賽
Hong Kong Student Science Project Competition 2021

決賽得獎名單
List of Winning Teams

高中組 Senior Division

發明品 (A 類項目)

Invention Projects (Type A)

獎項 Award	學校名稱 Name of School	參賽作品名稱 Project Title
冠軍 Champion	迦密柏雨中學 Carmel Pak U Secondary School	抗菌蟹膠布 Anti-bacterial Crab Bio-bandages with Bio-dressings 2.0
亞軍 1 st Runner-up	將軍澳香島中學 Heung To Secondary School (Tseung Kwan O)	汽車黑盒 Intelligent Driver Drowsiness Detection System
季軍 2 nd Runner-up	迦密柏雨中學 Carmel Pak U Secondary School	走塑新世代 2.0 Kombuchas of Putrescibles as Bio-disposables 2.0
季軍 2 nd Runner-up	基督教宣道會宣基中學 Christian and Missionary Alliance Sun Kei Secondary School	大海撈污 Marine Guard
優異獎 Honourable Mention	基督教宣道會宣基中學 Christian and Missionary Alliance Sun Kei Secondary School	可携式香港手語翻譯平台 A Portable Hong Kong Sign Language Translation Platform with Deep Learning

研究項目(B 類項目)

Investigation Projects (Type B)

獎項 Award	學校名稱 Name of School	參賽作品名稱 Project Title
冠軍 Champion	聖保祿學校 St. Paul's Convent School	以化學方法合成納米顆粒以製作生物塑料作抗菌之用 Synthesis of Nanoparticles by Chemical Method for Antibacterial Bioplastic
亞軍 1 st Runner-up	王肇枝中學 Wong Shiu Chi Secondary School	蔗來一用 Nanocellulose from Sugar Cane Bagasse for Removing Aqueous Heavy Metal Ions
季軍 2 nd Runner-up	協恩中學 Heep Yunn School	無形之手 Invisible Hand
優異獎 Honourable Mention	香港培正中學 Pui Ching Middle School	以轉基因生物傳感器定量監測二噁英 Genetically Modified Biosensor for Quantitative Diagnostic Detection of Dioxins
優異獎 Honourable Mention	天主教郭得勝中學 Kwok Tak Seng Catholic Secondary School	轉廢為膠 Biosource Plastic

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獎項 Award	作品名稱 Project Title	學校名稱 Name of School
可持續發展大賞 Sustainable Development Award	以化學方法合成納米顆粒以製作生物塑料作抗菌之用 Synthesis of Nanoparticles by Chemical Method for Antibacterial Bioplastic	聖保祿學校 St. Paul's Convent School
	研究利用真菌類甲殼素製作綠化膠布的可行性 Investigating the Feasibility of Utilizing Fungal Chitosan to Create Bio Bandage	滬江維多利亞學校 Victoria Shanghai Academy
	走塑新世代 2.0 Kombuchas of Putrescibles as Bio-disposables 2.0	迦密柏雨中學 Carmel Pak U Secondary School
社會創新大賞 Social Innovation Award	蜂蜜人工皮 Honey-Based Artificial Skin	聖保祿學校 St. Paul's Convent School
	AI Sight: 為視力障礙人士而設的人工智能輔助物件監測器 AI Sight: An AI-powered Object Detector for the Visually Impaired	中華基金中學 The Chinese Foundation Secondary School
最具潛質獎 Best Potential Award	以卵吸金 Removal of Heavy Metal Using Eggshells	順德聯誼總會鄭裕彤中學 Shun Tak Fraternal Association Cheng Yu Tung Secondary School
	天空之城 Sky Castle	協恩中學 Heep Yunn School

<p>新秀大賞 Best Newcomer Award</p>	<p>愛 (AI) 回家 (智能大廈大堂模型) Welcome Home (with AI system)</p>	<p>鳳溪第一中學 Fung Kai No.1 Secondary School</p>
	<p>A Better Lighting for Hong Kong</p>	<p>明愛胡振中中學 Caritas Wu Cheng-Chung Secondary School</p>
	<p>Investigation into the Use of Acid Hydrolysis, Alkali Hydrolysis and Organosolv Pretreatment to Extract Lignin</p>	<p>西島中學 West Island School</p>
<p>最佳表達獎 Best Booth Presentation Award</p>	<p>蜂蜜人工皮 Honey-Based Artificial Skin</p>	<p>聖保祿學校 St. Paul's Convent School</p>
	<p>農業廢物吸附重金屬離子和石蠟油的效用 The Effectiveness of Adsorption of Metal Ions and Oil by Agricultural Wastes</p>	<p>聖保祿學校 St. Paul's Convent School</p>
	<p>愛 (AI) 回家 (智能大廈大堂模型) Welcome Home (with AI system)</p>	<p>鳳溪第一中學 Fung Kai No.1 Secondary School</p>
	<p>AI Sight: 為視力障礙人士而設的人工智能輔助物件監測器 AI Sight: An AI-powered Object Detector for the Visually impaired</p>	<p>中華基金中學 The Chinese Foundation Secondary School</p>
<p>專案設計優異獎 Honourable Mentions of Design Proposal</p>	<p>我哋絕膠啦 Fish Scale Bioplastic (We shouldn't use plastic !)</p>	<p>潔心林炳炎中學 Kit Sam Lam Bing Yim Secondary School</p>
	<p>藥到病除 Chitosan-chelated Phosphated SPIONs for Doxorubicin Drug Delivery Against Cancer cells</p>	<p>英皇書院 King's College</p>
	<p>A Better Lighting for Hong Kong</p>	<p>明愛胡振中中學 Caritas Wu Cheng-Chung Secondary School</p>
	<p>優化排隊等候時間應用程式 Waiting Time Optimization App</p>	<p>喇沙書院 La Salle College</p>