

Faculty of Natural Sciences

Make-A-Difference!

Competition



Impact Report
November 2022

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Introduction

The FoNS Make-A-Difference Competition was established in January 2014 with the aim of encouraging students within the Natural Sciences to become involved in innovation activity and to provide a forum through which students could work together in teams to identify a problem and to develop, through their own laboratory research, a low-cost technological solution that would have a positive impact on society.

Since 2015 the competition has been open to all undergraduate students across the College, but teams must include at least 50% FoNS students. Teams progress from articulating their challenge to submitting a detailed proposal of the innovative solution they plan to develop. The top teams are given the opportunity to implement their project during a fully funded 8 week summer UROP placement. By the end of the competition, we expect these teams to demonstrate the proof-of-concept of their idea and to showcase it to a broader audience.

We believe that what makes FoNS-MAD stand out amongst the other competitions that are offered at Imperial is the placement element. The feedback we receive from students supports this:

'FoNS-MAD is unique in that no other competition or placement will give you the opportunity to work independently, with your own budget to spend, in a department that might not be your own on something that you are really passionate about. I have really enjoyed spending the summer trying to make a product which will save lives - I don't think any other placement will give you that kind of satisfaction.'

Mark Pollock, Team TB Detect, FoNS-MAD 2017

The FoNS-MAD competition is the perfect platform to develop an idea from dream to prototype. The funding, lab space and support provided by the Faculty of Natural Sciences has enabled ThinAir to achieve the stage of patent ready technology. I'd recommend this competition to any student who feels that they have an idea worth testing.

Jonathan Risley, Team ThinAir, FoNS-MAD 2017

Aims and Benefits of the Competition

- To engage students in an activity motivated by their curiosity and drive
- To motivate students to identify scientific/technological challenges that when solved can have an impact on people's lives
- To give students the opportunity to design a project and tackle a problem that they have identified
- To give students the opportunity to develop their ideas in the laboratory over the summer
- To provide a forum that will allow students to develop their scientific career beyond their degree studies
- To encourage innovation
- To encourage cross-department networking and teamwork
- To develop transferrable skills, such as teamwork, presentation skills and proposal writing

Competition Structure

Launch- January

The competition launches each year with an event in January to which all undergraduate students within FoNS are invited. Following the launch event, students are asked to formally register their interest in the competition.

Stage 1- January to March

Students who have registered an interest in the competition are given the opportunity to attend a series of Idea and Team Development Workshops. Students are supported in forming teams and in thinking about the type of project on which they might work.

Teams must consist of a maximum of 4 students. The newly formed teams each submit an Outline Proposal, which is considered by the Competition Committee at the end of this stage.



A FoNS-MAD Workshop taking place in the Enterprise Lab in 2018

Stage 2 – March to May

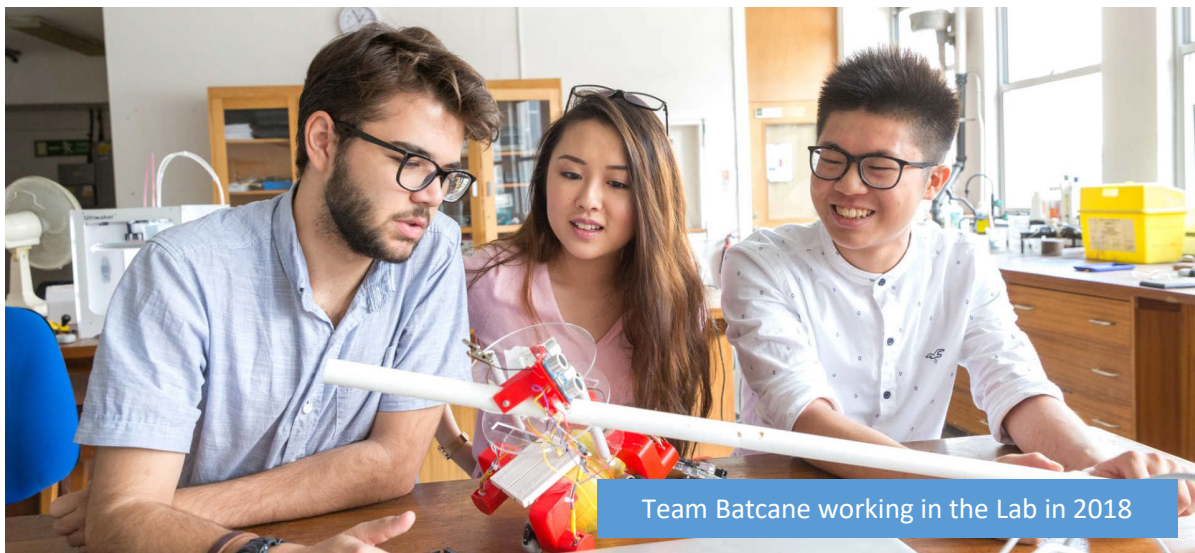
A longlist of teams are selected by the Committee to go through to the second stage of the competition. At this stage, each team is allocated an academic member of staff or teaching fellow as a mentor for the duration of their time in the competition.

The teams are required to work on a detailed proposal of their idea, which is then pitched to the judging panel and FoNS-MAD committee at the end of the stage. Teams are then selected to go through to the final stage of the competition.

To support the teams a number of workshops are available, including Intellectual Property; Business Ethics; and Teambuilding.

Stage 3 and Final Judging Event- August to October

The finalist teams are given access to lab space for 8 weeks during the summer in which to work on their ideas and develop them to proof of concept stage. The teams continue to be supported by their mentors during this period, as well as a lab supervisor where appropriate.



All finalists are registered as UROP students for the summer period and receive a maintenance bursary. In addition, each team has access to a fund of up to £1500 to cover lab consumables.

On completion of the 8 week research period, teams submit a detailed report of their findings and give a presentation to the VIP judges at an event with an invited audience of staff, students and guests. The winning team is selected and announced during this event.



FoNS-MAD Prize

The FoNS-MAD Prize is a £7000 award given to the winning team each year.

£1000 of the prize is split equally across the individual team members and can be used as the team members wish.

The remaining £6000 is an accelerator prize which is awarded to the team to assist them to further develop their project beyond the reach of the FoNS-MAD competition and lab placement. The accelerator prize money can only be used to fund further development associated with the selected FoNS-MAD team/project. The funding is administered by and at the discretion of the FoNS-MAD competition and is paid in staged payments associated with project progress. The selected team are expected to report back regularly to the FoNS-MAD committee on the progress of their project.

The Accelerator Prize has been funded since 2018 by a kind donation from Dr Allan Samuel, who also sits on the competition's VIP Judging Panel.

Student Participation

Since FoNS-MAD first launched in 2014, over 600 students have taken part in workshops and in the early stages of the competition, and a total of 94 students have been involved in the final stages of the competition, undertaking a lab placement and competing in the final.

We opened up the competition to non-FoNS students in 2015, and have seen students from across the College take part since then. The table below summarises participation in the competition final stage (i.e. the 8 week lab placement):

Dept.	2014	2015	2016	2017	2018	2019	2020-21 (COVID)	2022	TOTAL
Civil Engineering			1						1
Computing						1			1
Design Engineering					1				1
EEE								1	1
BioEngineering						1		2	3
Materials				1	1				2
Faculty of Engineering Total			1	1	2	2	n/a	3	9
Biomedical Science						1			1
Medicine		1	3						4
Faculty of Medicine Total		1	3			1	n/a		5
Chemistry		5	4	3	2	4			18
Life Sciences	8	5	2	8	6	5		11	45
Mathematics	1		1						2
Physics	1		3	4	3			4	15
Faculty of Natural Sciences Total	10	10	10	15	11	9	n/a		65
TOTAL	10	11	14	16	13	12	n/a	18	94

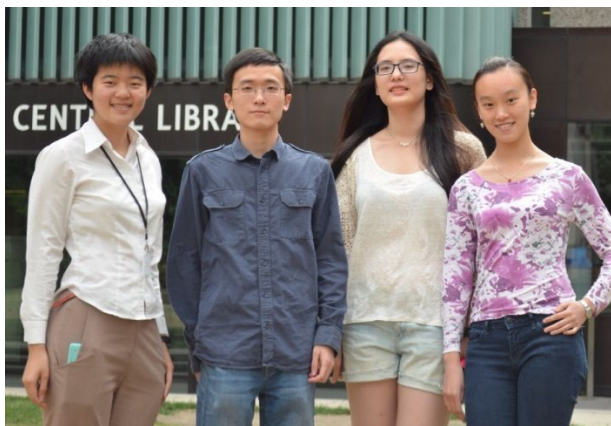
Teams and Projects

Below is a summary of the FoNS-MAD winning teams since 2014:

ZymeDeal- Winners 2014

Winners of the first year of FoNS-MAD were ZymeDeal: Jiawen Dou, Evelyn Liu, Sijia Yu and Qiyun Zhong, all from the Department of Life Sciences. The team worked on a solution to the problem of beverage preservation, which they identified as an emergent problem in many aspects of daily life.

They explored a method of natural, low-cost and efficient beverage storage by developing an enzyme coated polymer for long-term liquid storage at room temperature.



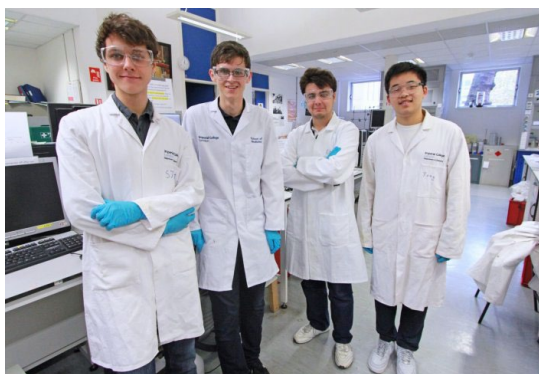
Following their FoNS-MAD success, ZymeDeal were selected to take part in the Althea-Imperial Programme and also the Venture Catalyst Challenge. The team also went on to become finalists in the China-UK Entrepreneurship Challenge in 2015.

They were placed 3rd overall against very stiff competition from teams from Oxford, Cambridge, LSE, UCL and the University of Ulster. The team received a £1,500 cash prize, plus the details of their project were posted on

the website of the UK Association for Entrepreneur Investment and Immigration for potential investors and collaborators to view.

Hidden Gens- Winners 2015

Team Hidden Gens were Stanislav Piletsky, Zeyu Yang and Cristian Zagar from the Department of Chemistry and Simon Rabinowicz from the Faculty of Medicine.



The team's project aim was to synthesise molecularly imprinted polymers (MIPs) that selectively bind to specific blood antigens. This has a number of applications, but Hidden Gens' primary objective was to engineer a new design of blood-type testing strip.

HiddenGens went on to submit a patent for their idea and to publish a paper on their research in the RSC's ChemComm journal (<https://pubs.rsc.org/en/content/articlelanding/2017/cc/c6cc08716g>). Simon Rabinowicz continued his entrepreneurial journey by teaming up with another FoNS-MAD Alumnus, Uddhav Vaghela, to form VUI Diagnostics. Simon and Uddhav's team won the Venture Catalyst Challenge 2019 for their invention, which could dramatically speed up the diagnosis of diseases that lead to sight loss: <https://www.imperial.ac.uk/news/190632/sight-saving-imaging-tool-wins-imperials-biggest/>

LipidSense- Winners 2016



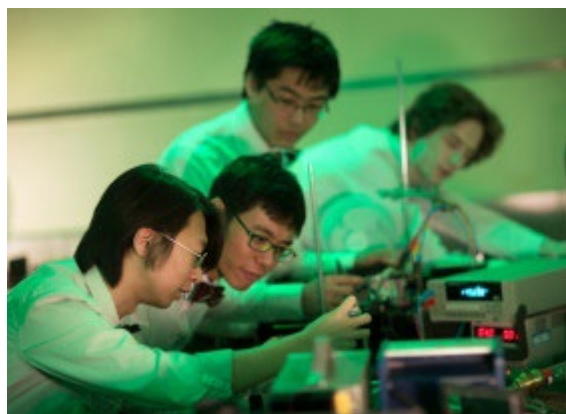
LipidSense were Kevin Halim and Joel Wong Wen Han from the Dept. of Chemistry, Johnathan Mei from Maths and Kamal Nahas from Life Sciences. The team developed a simple and rapid test of peroxide concentration in frying oil to determine if it is suitable and safe for consumption and re-use.

In May 2017, LipidSense were joined by a 5th team member, Johnny Sayavong, an undergraduate Chemistry with Molecular Physics student. Having received interest from industry, the team continued to develop their idea and worked within

the Imperial College Advanced Hackspace in 2017.

Matoha- Winners 2017

Team Matoha were Hans Chan and Martin Holicky from the Department of Chemistry, and David Anzhuo Dai and James Kung of Physics. Plastics are currently sorted by hand at many sorting plants due to the high cost of identification tools, but many plastics that should be recycled differently look the same to the naked eye. Matoha used infrared spectroscopy to develop a tool that would maximise sorting efficiency, resulting in more plastic waste being recycled and less plastic waste in landfills.



One of FoNS-MAD's most successful teams, Matoha have established a company (<https://www.matoha.com/>). They also went on to win 2nd place in the McKinsey Venture Academy, 2018, they were finalists in the Climate KIC Launch Pad, 2018, they won 2nd place in the Ideas to impact Challenge, 2018, they took part in the Hello Tomorrow Global Summit in Paris in 2019 and the Pitch@Palace 11.0, 2019. They were announced as winners of the Institute of Physics Business Start-up Award in 2019.

CleanSea- Winners 2018



CleanSea, Dario Mongiardi (Chemistry), Jedidiah Cheung (Life Sciences) and Riccardo Pierre (Chemistry) worked on developing a compound that could be introduced to filtration systems at wastewater treatment plants to attract and trap microplastics and prevent them from entering the environment.

MultusMedia- Winners 2019



MultusMedia, formed of Cai Linton (Bioengineering), Evan Whooley (Life Sciences), Kevin Pan (Life Sciences) and Réka Trón (Life Sciences), are creating an enabling technology for the clean meat industry.

MultusMedia’s culture medium is based on genetically engineered yeast that produces mammalian cell growth factors. These are substances such as vitamins or hormones which are required for the stimulation of

growth in living cells. The team’s aim with the project is to bring down the cost of cultured meat and tackle the unsustainability of using livestock to produce meat.

The team have been extremely successful, forming a company in 2020 (<https://multus.bio/>), raising substantial funds, and gaining industry attention:

<https://www.innovateukedge.ukri.org/success-story/Innovative-biotech-creates-jobs-after-Innovate-UK-EDGE-support>

ALFT- Winners 2022



Team ALFT -Edward Wu (Bioengineering), Zhanqing Hua (Life Sciences) and Yiming Huang (Life Sciences) - took home the top prize of £7,000 in October 2022 for their work on a lateral flow test to detect norovirus in food.

They are pictured here with Judging Panel member and sponsor of the FoNS-MAD Accelerator Prize, Dr Allan Samuel.

<https://www.imperial.ac.uk/news/241213/imperial-students-7000-prize-norovirus-lateral/>

Appendix A gives details of all FoNS-MAD finalist teams from 2014 to date.

Beyond FoNS-MAD

“The FoNS-MAD competition was a great opportunity to experience what it is like to design, develop and realize an idea from start to finish. We had a lot of creative freedom in the work we conducted, as the idea you have is not restricted in any way to your subject field. For me, it opened my eyes to a world of potential future careers I would never have considered, had I not participated in this fantastic competition.”

Tim Pauwels, Team FunGu(Y)s, FoNS-MAD 2014

One of the most important measures of the impact of the competition is how our alumni progress beyond FoNS-MAD.

To date, FoNS-MAD has proven to be a pipeline for other College competitions, such as the VCC and WE Innovate. A number of our winning teams and individuals have gone on to greater success via these and other, external competitions, to form companies, or publish their research, as outlined in the section above. But it's not just the winning teams who have been able to build on their experiences- the table below provides highlights of just some of our teams' achievements following FoNS-MAD:

FoNS-MAD Year	Team	FoNS-MAD Status	Progression Since FoNS-MAD
FoNS-MAD 2019	Multus Media	Winners	<ul style="list-style-type: none"> • https://multus.bio/ • https://www.imperial.ac.uk/news/203014/sustainability-startups-join-imperial-white-city/ • https://www.innovateukedge.ukri.org/success-story/Innovative-biotech-creates-jobs-after-Innovate-UK-EDGE-support • Raised £1.6M in 2021 as part of their latest fundraising. Investors include SOSV, Zero Carbon Capital, Marinya Capital and angel Sake Bosch, together with an equity-free grant of £106k from the UK Research and Innovation Council. • Incorporated as a company in March 2020 • Registered company no. 12524885
FoNS-MAD 2019	GutFeeling	Finalists	<ul style="list-style-type: none"> • Invited to join the Imperial Venture Mentoring Service (IVMS)
FoNS-MAD 2018	miCHIP	Finalists	<ul style="list-style-type: none"> • WE Innovate 2018/19- Finalists
FoNS-MAD 2018	ThinAirWater	Finalists	<ul style="list-style-type: none"> • Imperial Venture Mentoring Service (IVMS) • Registered company no. 10720690
FoNS-MAD 2017	Matoha	Winners	<ul style="list-style-type: none"> • McKinsey Venture Academy, 2018- 2nd Place • Climate KIC Launch Pad, 2018- Finalists • Ideas to impact Challenge, 2018- 2nd Place • Hello Tomorrow Global Summit, Paris, 2019 • Pitch@Palace 11.0, 2019 • Winners of Institute of Physics Business Start-up Award, 2019 • Incorporated as a company May 2018 (https://matoha.com/) • Registered company no. 11387533
FoNS-MAD 2016	MosquiDerm	Finalists	<ul style="list-style-type: none"> • Team member went on to win VCC 2019 and take part in IVMS with team VUI Diagnostics

FoNS-MAD 2015	The Velox Group	Finalists	<ul style="list-style-type: none"> The Althea-Imperial Programme - Finalists
FoNS-MAD 2015	Hidden Gens	Winners	<ul style="list-style-type: none"> Published paper on FoNS-MAD research in Chemical Communications 2017 (https://pubs.rsc.org/en/content/articlelanding/2017/cc/c6cc08716g) Team member went on to win VCC 2019 and take part in IVMS with team VUI Diagnostics
FoNS-MAD 2014	Zymeddeal	Winners	<ul style="list-style-type: none"> The Althea-Imperial Programme Venture Catalyst Challenge Finalists in the China-UK Entrepreneurship Challenge, 2015

Judging Panel



"This competition embodies what it means to create the right space for invention and innovation. More universities and organisations should be doing this."

Dr Ruth Allan, FoNS-MAD Judging Panel member since 2015

We are extremely grateful to the FONS-MAD Judging Panel members, who not only attend the Final event each year, but also take the time to review all of the teams' final proposals and are involved in assessing the teams' projects in the earlier stages of the competition.

Since 2014 the FoNS-MAD Judging Panel has included the following members:

Dr Ruth Allan (Panel member from 2015 to date)

Imperial Alumna; Business Performance Consultant and Certified High Performance Coach, [HT Consultants Ltd.](#)

Professor Dame Julia Higgins (Panel member from 2017 to 2019)
Professor of Polymer Science and Senior Research Investigator, Dept. of Chemical Engineering,
Imperial College

Dominique Kleyn (Panel member from 2022 to date)
Imperial Alumna; member of College Court; Co-Founder and COO of [Orthonika](#); Co-Chair of the
Imperial Venture Mentoring Service.

Dr Kerry O'Donnelly-Weaver (Panel member 2018)
Imperial Alumna and COO and CoFounder of [FA Bio](#)

Professor Sir John Pendry (Panel member from 2014 to date)
Chair in Theoretical Solid State Physics, Imperial College

Dr Allan Samuel (Panel member from 2018 to date)
Imperial Alumnus; held consultancy and managerial rolls at Shell prior to retirement.

Professor Lord Robert Winston (Panel member from 2014 to date)
Professor of Science and Society and Emeritus Professor of Fertility Studies, Imperial College

Professor Lesley Yellowlees (Panel member 2014-2015)
President of the RSC between 2012 and 2014; Professor of Inorganic Electrochemistry and vice-
principal and Head of the College of Science and Engineering at the University of Edinburgh

Organising Committee

The current FoNS-MAD Committee includes Professor Ramon Vilar of the Department of Chemistry, who founded the competition in 2014 and Chairs the committee; Rebecca Middleton, FoNS Head of Education & Student Experience, who has managed the competition since it was founded and the following departmental representatives:

- Dr Thibault Bertrand, Department of Maths
- Dr Euan Doidge, Department of Chemistry
- Dr Patrik Jones, Department of Life Sciences
- Professor Geoff Baldwin, Department of Life Sciences
- Professor John Tisch, Department of Physics

Finances

Since 2014 FoNS-MAD has been funded by the Faculty of Natural Sciences, with some contributions from individual donors.

The budgets for the 2019 and 2022 competitions were as follows:

Item	Details	Funder	Budget 2019	Budget 2022
Marketing materials		FoNS	£60	£60
Launch events		FoNS	£500	£500
Final Event		FoNS	£3000	£3000
Workshops		FoNS	£1000	£1000

FoNS-MAD Prize		FoNS (£1,000) & External Donor (£6,000)	£7000	£7000
Runners Up Prizes	2022- no runners up prizes were awarded	External Donor	£600	£600
Student Maintenance Bursaries	2019- £1760 per student finalist, for a <i>maximum</i> of 24 students 2022-£2,604 per student finalist, for a <i>maximum</i> of 24 students	FoNS	£21,120 (12 students)	£ 46,872 (18 students)
Research consumables fund	£1500 per finalist team, for a <i>maximum</i> of 6 teams	FoNS	£6,000 (3 teams)	£7,500 (5 teams)
IP Funding	£250 per team for a <i>maximum</i> of 6 teams	FoNS	£750 (3 teams)	£1,250 (5 teams)
TOTAL (FoNS):			£33,430	£61,782
TOTAL (Donors):			£6,600	£6,000
GRAND TOTAL:			£40,030	£67,782

APPENDIX A- Details of Finalist Teams' Projects

Winners are highlighted in yellow

2022				
Team Name	Team Members		Dept.	Project
ALFT	Edward	Wu	Bioengineering	An aptamer-based later flow test for rapid detection of norovirus
	Zhanqing	Hua	Life Sciences	
	Yiming	Huang	Life Sciences	
EcoFlav	Wangxing	Guo	Life Sciences	A broad-spectrum 30 SPF moisturiser with modified flavonoids made from waste fruit and vegetable.
	Liangxun	Tan	Life Sciences	
	Bhavi	Kevat	Life Sciences	
JAY	Jiaxin	Liu	Physics	InNeed- an emergency community support platform
	Avighna	Jha	Physics	
	Yuan	Gao	Physics	
	Jiawei	Yan	EEE	
Polytraps	Yunxiao	Wang	Life Sciences	Enzymatic degradation of microplastics in waste water using chitosan beads
	Angel	Xia	Life Sciences	
	Hussein	Jodiyawalla	Life Sciences	
	Minjoon	Seo	Life Sciences	
Sporadicate	Jay	Montgomery-Johnson	Physics	A sense-and-respond self-digesting biofungicide using engineered B.subtilis spores
	Shirin	Bamezai	Bioengineering	
	Marc	Amil	Life Sciences	
	Fontaine	Gibbs	Life Sciences	
2019				
Team Name	Team Members		Dept.	Project
Multus Media	Kevin	Pan	Life Sciences	
	Evan	Whooley	Life Sciences	

	Cai	Linton	Bioengineering	The expression of recombinant growth factors for the development of a highly scalable system to produce food-grade growth media suitable for applications in Cellular Agriculture
	Reka	Tron	Life Sciences	
GutFeeling	Carla	Smith	Life Sciences	An online platform that can diagnose gut microbiome-related diseases such as Parkinson's disease
	Soumya	Sharma	Biomedical Science	
	Codin Iosif	Pacuraru	Computing	
	Tamas	Dobai	Life Sciences	
Recoli	Jireh	Chiu	Chemistry	A cost-effective, environmentally friendly method for the recovery of metals from Li-ion batteries
	Gatsby	Fitzgerald	Chemistry	
	Conor	Crooks	Chemistry	
	Karl-Ander	Kasuk	Chemistry	
2018				
Team Name	Team Members		Dept.	Project
miCHIP	Georg	Wachter	Life Sciences	Low-cost and portable chip for miRNA biomarker detection
	Martina	Oliver Huidobro	Life Sciences	
	Alejandro	Marquiegui	Life Sciences	
Batcane	Leo	Leung	Physics	A low-cost smart cane which can detect obstacles ahead and navigate around them to provide visually impaired people with a tool to improve their mobility and independence
	Valerie	Lau	Physics	
	Ryan	Ho	Design Engineering	
	Louie	Hext	Physics	
FeaFOG	Yuxin	Zhang	Life sciences	A feather-keratin-inspired biodegradable wipe that prevents Fat, Oil, and Grease (FOG) from causing sewer blockage
	Ming	Toh	Life Sciences	
	Brady	Han	Materials	
CleanSea	Dario	Mongiardi	Chemistry	An innovative approach to removing microplastics from wastewater
	Jedidiah	Cheung	Biology	
	Riccardo	Rocco Pierre	Chemistry	
2017				
Team Name	Team Members		Dept.	Project
	Mark	Pollock	Physics	Rapid & Cheap Tuberculosis Diagnostic Test

Team TBD (Tuberculosis Detect)	Jacob	Robson-Tull	Life Sciences	
	Bibi	Honey Ryder Wood	Life Sciences	
	Federica	Raguseo	Chemistry	
Team Matoha	Martin	Holicky	Chemistry	A Low-Cost Infrared Plastics Identification Tool
	Hans	Chan	Chemistry	
	Kung	James	Physics	
	David	Dai	Physics	
Team Debac	Mingke	Pan	Life Sciences	Early detection of surgical wound acquired infection using pigment-containing capsules
	Kim Ngan	Luu Hoang	Life Sciences	
	Gi Young	Park	Physics	
	Thomas	Caganek	Life Sciences	
Team ThinAir	Emily	Neoh Gaik Kin	Life Sciences	A biomembrane that condenses water on a topology optimized surface, efficiently and energy-free
	Muhammed	Maktari	Materials	
	Jonathan	Risley	Life Sciences	
	Jansen	Teng Weng Nang	Life Sciences	
2016				
Team Name	Team Members		Dept.	Project
LipidSense	Kevin	Halim	Chemistry	A simple and rapid test of peroxide concentration in frying oil to determine if it is suitable and safe for consumption and re-use
	Joel	Wong Wen Han	Chemistry	
	Johnathan	Mei	Maths	
	Kamal	Nahas	Life Sciences	
MosquiDerm	Uddhav	Vaghela	Medicine	Prevention of mosquito penetration by minimising the frictional adhesion forces between mosquito and a host surface
	Dimitrios	Karponis	Medicine	
	Stephan	Koenigstorfer	Physics	
	Ana	Losada De La Lastra	Chemistry	
	Claudia	Liang Peng	Life Sciences	
Penteract	Kaiji	Wang	Medicine	Electrochemical MIP-capacitor sensor powered by smartphone NFC
	Xinran	Liu	Civil Engineering	

	Ashim	Sen Gupta	Physics	
	Alice	Cao	Physics	
	Wern	Ng	Chemistry	
2015				
Team Name	Team Members		Dept.	Project
Hidden Gens	Stanislav	Piletsky	Chemistry	Project aim was to synthesise molecularly imprinted polymers (MIPs) that selectively bind to specific blood antigens. This has a number of applications, but Hidden Gens' primary objective was to engineer a new design of blood-type testing strip
	Zeyu	Yang	Chemistry	
	Cristian	Zagar	Chemistry	
	Simon	Rabinowicz	Medicine	
ChaD	Ezra	Kitson	Life Sciences	An idea to combat the disease schistosomiasis. They sought to develop a device that can detect the presence of <i>Schistosoma mansoni</i> in water, using a device simple enough to be used by nonspecialists
	Henry	Lloyd-Laney	Life Sciences	
	Adam	Mills	Life Sciences	
	Ivan	Zheludev	Life Sciences	
The Velox Group	Lauren	Dennis	Chemistry	The team identified a disease without a simple qualitative technique for in-field patient diagnosis: Rift Valley Fever virus (RVF), which infects livestock with up to 90 % lethality, and has the potential to infect humans. The team worked on a qualitative in-field test for Rift Valley Fever using antibodies conjugated to nano-particles
	Jakub	Vaith	Chemistry	
	Cameron	Doughty	Life Sciences	
2014				
Team Name	Team Members		Dept.	Project
ZymeDeal	Jiawen	Dou	Life Sciences	ZymeDeal worked on a solution to the problem of beverage preservation, which they identified as an emergent problem in many aspects of daily life. They explored a method of natural, low-cost and efficient beverage storage by developing an enzyme coated polymer for long-term liquid storage at room temperature
	Evelyn	Liu	Life Sciences	
	Sijia	Yu	Life Sciences	
	Qiyun	Zhong	Life Sciences	
FunGu(Y)s	Tim	Pauwels	Life Sciences	The aim of the FunGu(Y)s team project was to improve the quality of research with air displacement micropipettes by designing one which was
	Vasily	Shenshin	Life Sciences	

				more resistant to errors and which would demand less strenuous movements, thus decreasing the risk of RSI
BioMilk	Alan	Chang	Physics	The team worked on a project to create a milk substitute to provide a lactose-free milk option to the public using synthetic biology techniques. The core objective of their project was to make milk affordable and readily accessible to everyone
	Timothy	Yin Ho Hui	Maths	
	Tin	Shing Lee	Life Sciences	
	Xin	Zhan	Life Sciences	