















**Trinity College Dublin**  
Coláiste na Tríonóide, Baile Átha Cliath  
The University of Dublin









**Laidlaw Undergraduate  
Leadership and Research Programme  
2018 Scholars**

Laidlaw Scholar	Programme	Research Project Title	Supervisor(s)
<p>Aaron C.C. Koay</p> 	Pharmacy	Impact of the antioxidant vitamin ergothioneine on the development of idiopathic pulmonary fibrosis	Dr Carsten Ehrhardt
<p>Andrew Cleary</p> 	Theoretical Physics	Leaking Exoplanets: Understanding how Stars affect Atmospheric Escape in Exoplanets	Professor Aline Vidotto
<p>Colin Wilburn</p> 	Science	Waste Heat Harvesting Using Thermally Charged Capacitors	Professor David McCloskey
<p>Conor Fitzmaurice</p> 	Medicine	Advances in Nanotherapy in Dermatology	Professor Alan Irvine

Laidlaw Scholar	Programme	Research Project Title	Supervisor(s)
<p>Deirdre Power</p> 	English Studies	Ireland's Empowered Girls: The Pollard Collection of Children's Books and its Contemporary Counterparts	Dr Jane Carroll
<p>Elle Loughran</p> 	Science	The impact of codon usage on gene expression variation in human copy number variants and trisomies	Professor Aoife McLysaght
<p>Kate Johnston</p> 	Medicine	Comparison of patient experiences of chronic arthropathy in severe haemophilia before and after the switch over to extended half-life factor VIII and factor IX concentrates	Dr Niamh O' Connell
<p>Luke Fehily</p> 	Nanoscience	Atom-by-atom structural characterization of nano-materials using aberration corrected electron microscopy	Professor Valeria Nicolosi

Laidlaw Scholar	Programme	Research Project Title	Supervisor(s)
<p>Mollie O'Neill</p> 	Science	Investigating the potential of resveratrol synthase inhibition in management of Japanese knotweed	Dr Joanna McGouran
<p>Philip Smyth</p> 	Medicine	Characteristics of patients presenting with traumatic brain injuries to an urban university department of emergency medicine	Dr Geraldine McMahon
<p>Robert Clampett</p> 	Science	Helium Ion Beam Defects in the Creation of Silicon Waveguides	Professor David McCloskey/ Professor Hongzhou Zhang/Professor James Lunney
<p>Robert Power</p> 	Medicine	Examining the characteristics and germline mutations of upper gastrointestinal cancers in the Irish population	Professor Maeve Lowery

Laidlaw Scholar	Programme	Research Project Title	Supervisor(s)
<p>Samuel Bateman</p> 	Theoretical Physics	Helium-Ion microscopy of tumour cell-platelet interactions	Professor Hongzhou Zhang/Professor Maria Santos-Martinez
<p>Sarah Honan</p> 	Law	Justice After Destruction? Legal Avenues and Obstacles for Prosecution of the Yazidi Genocide	Professor Rosemary Byrne
<p>Seán McMahon</p> 	Engineering	The synthesis of electromechanical strain sensors based on graphene/polymer nano-composites: Measuring the cyclical defection of bike frames for performance analysis	Professor Jonathan Coleman
<p>Seán O'Neill McPartlin</p> 	Philosophy	The value of outcomes: the intersection of Population and Animal Ethics	Dr Kenneth Pearce

Laidlaw Scholar	Programme	Research Project Title	Supervisor(s)
<p>Stefan Nixon</p> 	Theoretical Physics	Luminous Supernovae across the Universe	Professor Jose Groh
<p>Susan Yi Yang</p> 	Medicine	Parasites and pigs: Inflammatory and permeabilisation markers in blood brain barrier disruption and neovascularisation in a porcine model of Neurocysticercosis	Professor Celia Holland