CURTIN UNIVERSITY
INSTITUTIONAL BIOSAFETY COMMITTEE

Minutes of the Meeting 04/16 held at 1.00pm on Monday 1st August 2016
Executive Briefing Centre Boardroom, Building 100 Level 2

PRESENT:
Mr Gavin Waugh
Mr Frank Collins
Dr Peta Tilbrook
Professor Mark Gibberd
Dr Josh Ramsay
Dr Rob Steuart (Chair)
Mr Bevan Clark
Assoc Professor David Groth

APOLOGIES:
Dr Beng Hooi Chua
Dr Matthew Denton-Giles
Professor John Mamo

IN ATTENDANCE:
Dr Bernadette Bradley (Biosafety Advisor, Executive Officer)

1. Minutes of the Previous Meeting – 03/16

The Committee confirmed the Minutes were a correct record of proceedings of IBC 03/16, 1st June 2016

RESOLVED IBC 25-16: Minutes of previous Meeting 03/16 confirmed.

2. Conflict of Interest

None.

3. Dealing Applications

3.1 Notifiable Low Risk Dealings NLRDs – for assessment.

- IBC 2016-13 Dr Simon Ellwood - Heterologous expression of genes derived from plant pathogen fungal species.

  The Deputy PI has left Curtin, and will need to be replaced.

  Decision: Approved conditionally upon nomination of a new DPI.

- IBC 2016-14 Dr Simon Ellwood - Identification of fungal plant pathogenic pathogenicity factors.

  The Deputy PI has left Curtin, and will need to be replaced.

  Decision: Approved conditionally upon nomination of a new DPI.

3.2 GM Dealing – for noting.

- IBC 2016-12 Dr Catherine Anne Boisvert - Growing E.coli for cell lineage plasmids and cell lineage tracing in sharks.

  The IBC noted the Dealing, and discussed multi-stage Dealings of different Classes, how we monitor the drift between Classes over time using Annual Reporting, the sometimes need to change Facilities to a more appropriate kind, and the need to plan research to allow time for the correct Approvals and Facilities to be put in place.

3.3 Dealings Not involving an Intentional Release DNIRs – for noting.

- IBC 2015-20 Expression of genes from plant pathogenic fungi into a model fungus, *Parastagonospora nodorum*.

  Decision: The OGTR issued Licence DNIR 563 on 24/06/2016.
  RESOLVED IBC 28-16: The IBC noted the issue of DNIR Licence 563 for IBC 2016-20.

  The IBC noted the Licence.

4. **IBC Indemnification for OGTR Annual Report**

The IBC members agreed that Curtin continues to have appropriate indemnification, and the IBC members consider their indemnification to be acceptable.

RESOLVED IBC 29-16: The IBC considers their indemnification to be acceptable.

5. **IBC Chair’s Report**

Deferred.

6. **Biosafety Advisor’s Report**

The Committee accepted the written report.

The Committee discussed the incident (6.4) and suggested further training be added as mitigation.
The Committee discussed the new Children’s Hospital (6.5) and the problems that they are having with its construction.
The Committee advised BB to find the regulatory impact statement for the Biosecurity Act (6.6) and file it.

7. **Physical Containment Facility Managers’ Reports.**

RS reported that the HEPA filters in some of his BSCIIIs were at the normal end of their life and needed to be replaced, but high external demand for BSCII HEPA filters had resulted in delays in sourcing replacement filters for his machines.

RS reported that he was testing the method of putting water in sealed autoclave bags of waste that are decontaminated in his autoclaves, as a method to overcome the shortfalls in the exit air filters of those machines.

PT reported that she will now be the Facility Manager of B304, assisted by Karl Lorenz.

8. **Communication sharing between IBC Members.**

Deferred.

9. **Matters arising from previous meetings.**

Action 10/13: Biosafety Advisor to draft letters to be used to liaise with other IBCs about Curtin staff and students doing dealings in external facilities, and external people doing dealings in Curtin facilities.

Ongoing.

Action 04/14: That the Biosafety Advisor investigate how Risk Group 2 microorganisms are handled in industry (on the bench or in biosafety cabinets).

BB advised that the recent Microbiological Risk Assessment of RG2 microorganisms handled in B306/B308 undergraduate teaching showed that many of those microorganisms could be handled safely on the bench and didn’t need to be handled in a BSCII.

Ongoing.

Action 02/15: Scope the project about documenting vaccination management.

BB to draft a Vaccination Procedure and circulate it to the IBC out of session.
BB to include it in the next HMGC Agenda.

Ongoing.

Action 03-16: Review the Safety and Health Representatives Inspection Checklist to try to include items of biosafety monitoring.

BB to send electronic version of the Facility Manager Audit Checklist to the IBC for their review.
Ongoing.

**Action 04-16**: Try to get BSCIIs and autoclaves included in the Properties maintenance schedule.

RS will meet with BHC and PT to draft the terms for the BSCII contract.

Ongoing.

**Action 05-16**: BB to pull the content of the OGTR report out into a table, analyse how Curtin addresses with each section, advise how Curtin could address some sections more thoroughly, and present it to the next meeting.

Ongoing.

**Action 08-16**: The IBC will begin work on a set of Biosafety Guidelines.

Ongoing.

**Action 09-16**: BB to take the increased risks posed by interdisciplinary research up to the IBHMEGC for guidance.

Ongoing.

**Action 10-16**: BB to investigate the powers of the IBC to investigate and halt the progress of projects where the risks need further assessment.

Ongoing.

**Action 11-16**: BB to organise for the IBC Chair to meet with Professor Moses Tade from the Faculty of Science and Engineering, seeking solutions, and report back to the IBC.

RS will email Moses Tade and ask for the report.

Ongoing.

10. **Any Other Business**

RS advised that he, BB and Amy Bowater had met with Properties Space Management and heard about their plans for a graphical user interface that will allow much more information about the campus to be available.

RS advised that he had been involved in a project to upgrade the phlebotomy suites on campus, and money has been requested from the Faculty Health to do that.
RS advised that he had seen a proposal to build two new, very large, super-lab buildings south of B311. The buildings would contain Science/Engineering spaces, the Delaeter Centre, and undergraduate lab teaching.

The IBC discussed interdisciplinary research and research project scope drift. They discussed systems to identify these types of research and strategies to manage the changing work. They also discussed cultural differences in risk mitigation, and the suitability of compatible projects in shared spaces.

Meeting ended 3.00 pm.
<table>
<thead>
<tr>
<th>No.</th>
<th>Action required</th>
<th>Person responsible</th>
<th>Target date</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-13</td>
<td>Action: Biosafety Advisor to draft letters to be used to liaise with other IBCs about Curtin staff and students doing dealings in external facilities, and external people doing dealings in Curtin facilities.</td>
<td>Biosafety Advisor</td>
<td>2/10/2013</td>
<td>Ongoing</td>
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<tr>
<td>04-14</td>
<td>That the Biosafety Advisor investigate how Risk Group 2 microorganisms are handled in industry (on the bench or in biosafety cabinets).</td>
<td>Biosafety Advisor</td>
<td>10/09/2014</td>
<td>Ongoing</td>
</tr>
<tr>
<td>02-15</td>
<td>Scope the project about documenting vaccination management.</td>
<td>Biosafety Advisor</td>
<td>30/06/2016</td>
<td>Ongoing</td>
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<tr>
<td>03-16</td>
<td>Review the Safety and Health Representatives Inspection Checklist to try to include items of biosafety monitoring.</td>
<td>Biosafety Advisor</td>
<td>20/04/2016</td>
<td>Ongoing</td>
</tr>
<tr>
<td>04-16</td>
<td>Try to get BSCIIIs and autoclaves included in the Properties maintenance schedule.</td>
<td>Biosafety Advisor</td>
<td>20/04/2016</td>
<td>Ongoing</td>
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<tr>
<td>05-16</td>
<td>BB to pull the content of the OGTR report out into a table, analyse how Curtin addresses with each section, advise how Curtin could address some sections more thoroughly, and present it to the next meeting.</td>
<td>Biosafety Advisor</td>
<td>20/04/2016</td>
<td>Ongoing</td>
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<tr>
<td>08-16</td>
<td>The IBC will begin work on a set of Biosafety Guidelines.</td>
<td>IBC</td>
<td>20/04/2016</td>
<td>Ongoing</td>
</tr>
<tr>
<td>09-16</td>
<td>BB to take the increased risks posed by interdisciplinary research up to the IBHMEGC for guidance.</td>
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<td>01/06/2016</td>
<td>Ongoing</td>
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<td>BB to investigate the powers of the IBC to investigate and halt the progress of projects where the risks need further assessment.</td>
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<td>Biosafety Advisor</td>
<td>01/06/2016</td>
<td>Ongoing</td>
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**RUNNING TOTAL SUMMARY 2016**

<table>
<thead>
<tr>
<th>Resolution No</th>
<th>Resolution Date</th>
<th>Description</th>
<th>Decision</th>
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<tbody>
<tr>
<td>IBC 01-16</td>
<td>24/2/2016</td>
<td>Minutes of previous Meeting 04/15 confirmed.</td>
<td>Confirmed</td>
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<tr>
<td>IBC 06-16</td>
<td>24/2/2016</td>
<td>The IBC Approved The Terms of Reference.</td>
<td>Approved</td>
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Applications/Notifications Approved

<table>
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<tr>
<th>Resolution No</th>
<th>Project No</th>
<th>Resolution Date</th>
<th>Description</th>
<th>Applicant</th>
<th>Decision</th>
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<tbody>
<tr>
<td>IBC 02-16</td>
<td>IBC 2016-02</td>
<td>24/2/2016</td>
<td>The IBC Approved IBC 2016-02.</td>
<td>Robert Lee</td>
<td>Approved</td>
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<tr>
<td>IBC 03-16</td>
<td>IBC 2016-03</td>
<td>24/2/2016</td>
<td>The IBC Approved IBC 2016-03.</td>
<td>Robert Lee</td>
<td>Approved</td>
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<td>IBC 04-16</td>
<td>IBC 2016-04</td>
<td>24/2/2016</td>
<td>The IBC Approved IBC 2016-04.</td>
<td>Robert Lee</td>
<td>Approved</td>
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<tr>
<td>IBC 05-16</td>
<td>IBC 2016-01</td>
<td>24/2/2016</td>
<td>Application Withdrawn.</td>
<td>Richard Oliver</td>
<td>Withdrawn</td>
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<tr>
<td>IBC 13-16</td>
<td>IBC 2016-06</td>
<td>20/4/2016</td>
<td>The IBC Approved IBC 2016-06.</td>
<td>Nina Tirnitz-Parker</td>
<td>Approved</td>
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### Incidents

<table>
<thead>
<tr>
<th>Incident/Notification Date</th>
<th>Resolution Date</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Feb</td>
<td>Feb</td>
<td>In B305, incompatible chemical residues in a sharps bin interacted to produce fumes.</td>
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<tr>
<td>Feb</td>
<td>Feb</td>
<td>In B300, the cold room malfunctioned, and was fixed the same day.</td>
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<tr>
<td>Feb</td>
<td>Feb</td>
<td>In B305 there had been two false alarms – one when concrete dust from grinding set off a particulate sensor, and another that was a sensor malfunction.</td>
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<tr>
<td>Mar</td>
<td>Mar</td>
<td>Researcher did not have the correct GM Dealing to match the research being performed.</td>
</tr>
<tr>
<td>Mar</td>
<td>Mar</td>
<td>Researcher did not have the correct GM Dealing to match the research being performed.</td>
</tr>
<tr>
<td>Mar</td>
<td>Mar</td>
<td>Changed controls did not prompt a review of a risk assessment.</td>
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<tr>
<td>Apr/May</td>
<td>Apr/May</td>
<td>The cleaners have not been effective in B305 recently and Rob Steuart has had to meet with them, and Properties, about this issue.</td>
</tr>
<tr>
<td>Apr/May</td>
<td>Apr/May</td>
<td>B305 lab sink areas have been left very dirty by users, and important equipment has been repeatedly switched off, and Rob Steuart has had to issue users with a corrective action.</td>
</tr>
<tr>
<td>Apr/May</td>
<td>Apr/May</td>
<td>Chemical residue in a B305 sink drain reacted with second chemical discarded down drain to create toxic fumes.</td>
</tr>
<tr>
<td>Apr/May</td>
<td>Apr/May</td>
<td>Incorrect use of BSCIIs has been seen in B300, and Beng Chua has had to issue users with a corrective action.</td>
</tr>
<tr>
<td>Apr/May</td>
<td></td>
<td>The AirClean spray booth in B126K had not been approved as an aerosol containment device by the OGTR, so a Variation to the Certification of that facility has been applied for, asking to have the AirClean approved.</td>
</tr>
<tr>
<td>May</td>
<td>May</td>
<td>There was also extreme weather recently that had minor impacts on some facilities.</td>
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<tr>
<td>May</td>
<td></td>
<td>RS described a spill of Exempt Dealing microorganisms in the B305 lab, and the subsequent clean-up and corrective actions.</td>
</tr>
<tr>
<td>May</td>
<td></td>
<td>PT reported that the Conviron Units in B126K are still not under a service contract, even after her significant efforts towards that goal, and that she will attempt to roll them under the service contract for the new units for B304.</td>
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<tr>
<td>Cert No.</td>
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<tr>
<td>Cert-3490</td>
<td>PC2 Lab</td>
<td>1-8-2017</td>
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<td>Cert-1745</td>
<td>PC2 Lab</td>
<td>5-8-2013</td>
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<td>Cert-1746</td>
<td>PC2 Lab</td>
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<td>Cert-3203</td>
<td>PC2 Lab</td>
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<td>Cert-2541</td>
<td>PC3 Lab</td>
<td>30-9-2017</td>
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<td>Cert-2406</td>
<td>PC2 Anim</td>
<td>20-4-2017</td>
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<td>Cert-2407</td>
<td>PC2 Lab</td>
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<td>Cert-3085</td>
<td>PC2 Lab</td>
<td>11-5-2020</td>
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<td>Cert-3086</td>
<td>PC2 Plant</td>
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<td>Cert-1744</td>
<td>PC2 Lab</td>
<td>6-8-2005</td>
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<td>Cert-1747</td>
<td>PC2 Lab</td>
<td>5-8-2008</td>
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<td>Cert-1748</td>
<td>PC2 Lab</td>
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<td>Cert-1749</td>
<td>PC2 Lab</td>
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<td>Cert-3370</td>
<td>PC2 Plant</td>
<td>15-12-2016</td>
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<td>Cert-2405</td>
<td>PC2 Lab</td>
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<td>Cert-3832</td>
<td>PC2 Lab</td>
<td>6-4-2019</td>
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### Curtin’s NLRDs

<table>
<thead>
<tr>
<th>OGTR’s NLRD ID</th>
<th>Curtin’s IBC NLRD ID</th>
<th>Title</th>
<th>Principle Investigator</th>
<th>Status</th>
<th>Expiry</th>
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</thead>
<tbody>
<tr>
<td>NLRD-1458</td>
<td></td>
<td>Storage of GMOs that meet the criteria for a Notifiable Low Risk Dealing.</td>
<td>David Williams</td>
<td>Complete</td>
<td></td>
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<tr>
<td>NLRD-1459</td>
<td></td>
<td>Analysis of genetic determinants in staphylococci associated with resistance to cationic compounds.</td>
<td>David Townsend</td>
<td>Complete</td>
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<tr>
<td>NLRD-1462</td>
<td></td>
<td>Characterisation of the esp gene and VanB resistance determinant of Enterococcus faecium.</td>
<td>Frances O’Brien</td>
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<tr>
<td>NLRD-1463</td>
<td></td>
<td>Characterisation of antibiotic resistance and pathogenicity of methicillin-resistant Staphylococcus aureus.</td>
<td>Frances O’Brien</td>
<td>Complete became 3351</td>
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<tr>
<td>NLRD-1908</td>
<td></td>
<td>Construction of relaxable bacteria plasmids</td>
<td>David Townsend</td>
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<tr>
<td>NLRD-2465</td>
<td></td>
<td>Storage of infectious poliovirus clone that meets the criteria for a NLRD</td>
<td>David Williams</td>
<td>Complete</td>
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<tr>
<td>NLRD-2466</td>
<td>IBC 2007/02</td>
<td>Characterisation of the immune response of acellular pertussis vaccine [ACV] vaccinated mice subjected to intranasal vaccination with an aromatic-dependent B pertussis mutant</td>
<td>TK Mukkur</td>
<td>Complete</td>
<td>31 March 2015</td>
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<tr>
<td>NLRD-3351</td>
<td>IBC 2008/06</td>
<td>Characterisation of antibiotic resistance and pathogenicity of methicillin resistant staphylococcus aureus</td>
<td>Frances O’Brien</td>
<td>Complete</td>
<td>31 August 2016</td>
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<tr>
<td>IBC 04/16</td>
<td>Page 11 of 15</td>
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<td>NLRD-3353</td>
<td>IBC 2009/04</td>
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<td>Driving tumours to become their own vaccine site: understanding the role of tumor specific T cell using TCR mice</td>
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<td>Delia Nelson</td>
<td>Current</td>
<td>31 August 2016</td>
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<td>NLRD-4490</td>
<td>IBC 2010/25</td>
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<tr>
<td>Identification of pathogenicity factors in fungal plant pathogens</td>
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<tr>
<td>Richard Oliver</td>
<td>Complete</td>
<td>31 August 2016</td>
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<td>NLRD-4491</td>
<td>IBC 2010/26</td>
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<td>Inactivation of Adenylate Cyclase of the aroQ Bordetella pertussis vaccine candidate</td>
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<tr>
<td>TK Mukkur</td>
<td>Complete</td>
<td>31 August 2016</td>
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<tr>
<td>Genetic Characterisation of Murray Valley Encephalitis virus</td>
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<td>David Williams</td>
<td>Converted to an Exempt Dealing by Dr Beng Chua.</td>
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<td>NLRD-5856</td>
<td>IBC 2013/01</td>
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<td>Fungacide use in broad acre cropping</td>
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<td>Richard Oliver</td>
<td>Current</td>
<td>5 February 2018</td>
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<tr>
<td>NLRD-5989</td>
<td>IBC 2013-03</td>
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<td>Understanding and applying macrophage-mediated effects on liver progenitor cells to treat liver disease.</td>
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<td>Caryn Elsegood</td>
<td>Current</td>
<td>2 April 2018</td>
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<td>NLRD-6141</td>
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<td>Determination of the mutagenic potential of commonly marketed Ghanaian medicinal plant formulations using the bacterial reverse mutation assay [AMES test].</td>
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<td>TK Mukkur</td>
<td>Complete</td>
<td>4 June 2018</td>
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<td>NLRD-6325</td>
<td>IBC 2013-09</td>
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<td>Investigating gene regulation in bacteria.</td>
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<td>Joshua Ramsay</td>
<td>Current</td>
<td>30 July 2018</td>
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<td>NLRD-6406</td>
<td>IBC 2013-10 – renewal of IBC 2010-04</td>
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<td>Identification of fungal plant pathogenic pathogenicity factors.</td>
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<tr>
<td>Richard Oliver</td>
<td>Complete – superseded by 2014-03</td>
<td>27 August 2018</td>
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<td>NLRD-6407</td>
<td>IBC 2013-11 - renewal of IBC 2010-25</td>
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<td>Heterologous expression of genes derived from plant pathogen fungal species.</td>
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<tr>
<td>Richard Oliver</td>
<td>Complete – superseded by 2014-04</td>
<td>27 August 2018</td>
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<tr>
<td>NLRD-6483</td>
<td>IBC 2013-16</td>
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<td>Construction of genetically detoxified live attenuated Bordetella pertussis and evaluation of its immune-protective potential against whooping cough.</td>
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<td>A bacterial type 3 secretion assay for effector delivery into plants.</td>
<td>Kar Chun Tan</td>
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<td>Assessing the impact of human PXR expression and statin treatment on the murine gut microbiota and the development of Type 2 diabetes.</td>
<td>Philip Newsholme</td>
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<td>9 September 2019</td>
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<td>IBC 2015-02</td>
<td>Gene transfer and regulation of biofilm formation in <em>Staphylococcus aureus</em>.</td>
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<td>Putative neurological effects of exaggerated secretion of enterocytic lipoprotein-associated beta-amyloid in a transgenic mouse model expressing human beta-amyloid limited to the absorptive epithelial cells of the small intestine.</td>
<td>John Mamo</td>
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<td>Analysis of the contribution of mutations to antifungal compound resistance in filamentous fungi.</td>
<td>Francisco Lopez-Ruiz</td>
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## Import Permits

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<td>Judith Lichtenzeig</td>
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**IBC 04/16**

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