

## **BPA Funded Research Projects (Oct 2020)**

**(For information about specific projects, please contact Anna Yallop, BPA General Manager: 021 799 314, [anna.yallop@bioresourceprocessing.co.nz](mailto:anna.yallop@bioresourceprocessing.co.nz))**

**Key: CI (Callaghan Innovation), AgR (AgResearch), PFR (Plant & Food Research)**

<b>BPA funding req No#</b>	<b>Project Name</b>	<b>CRI/Uni Lead</b>
2	Overview of water removal technologies	CI
4	Virtual pilot plant database generation	CI
5	DAF and MBM value adding value Processing	CI
6	Higher value uses for Pinus Radiata Sawdust	Scion
8	Mapping of Product and Waste streams for meat, wool and dairy processing	AgR
9	High Value biomaterial products from animal waste proteins	AgR
10	Waste as a feed ingredient	PFR
10 B	Waste as a feed ingredient Part 2	PFR
11	Value from aquaculture nuisance species	PFR
12	Compounds from vegetable waste	PFR
13 A and B	Weed Suppressant	PFR
14	Downstream processing	Scion
15 A and B	Development of rapid assessment tools-hydrothermal processing	Scion
17	Optimisation of PHA production using new substrate	Scion
19	Solvent separation technologies for natural food and health products	CI
20	DAF lipid biotransformation	CI
21	Fruit fibre - Avocado	CI
23	Extraction of Proteins	AgR
24	Novel and straight forward method for processing deer tails	AgR
25	Rugs to Riches	AgR
26	Protein project	AgR
27	Bovine blood project	AgR
28	Aspen Integration	Scion
30 A and B	Opportunities II - Fruit and Vegetable Processing Waste Part 2	PFR
32	Towards continuous recovery of cholesterol	AgR
34	Use of Seaweed Part 3	PFR
35	Cross sector Waste Opportunities I: Animal and Mineral	CI
36	PHA Biopolymer production from hydrothermal liquors	Scion
37	Simple sugar project	CI
38	Animal Feed	Scion
39	Slow-release fertilizers	Scion
40	Vegetable powder	CI
41	Animal feed: Literature review and feasibility study	Scion
43	New Uses for Hydrochloric Acid	Scion
44	High value foods from aquaculture species – Phase1	University
46	Impacts of processing storage methods on quality of aquaculture species	PFR
49	Biofuels	Scion
50	Mussel Opportunity analysis	PFR
51	Mussel scoping study	PFR
52 A and B	Weed suppressant part 3 Business case Assessment	AgR
53	Invasive pest species on mussel lines	PFR
55	Raw material to support the growth of a new industry	PFR

57	PhD: Modelling and Simulation of Hydrothermal and Wet Oxidation processes on Aspen Plus	University
58	PhD: Substrates for development of new food products	University
59	Masters: Commercializing polyphenol rich extracts from fruit and vegetable streams	University
60	Internship: Anaerobic fermentation of municipal solid waste and wet oxidation liquors	University
61	Internship: Tannin Pilot Plant	University
62	Internship: Optimisation of PHA production using new liquor as substrate	University
63	Masters: Anti-bacterial properties of honey raw material	University
64	PhD: Recovering bioactive compounds and aroma precursors from grape pomaces	University
65	High value bionanomaterials	University
66	Biofuels	Scion
67	Extractives from bark	CI
68	Scoping waste streams and water usage	CI
71	Effluent for Fire-Fighting: Textile Flame Retardant	AgR
72	Pilot scale trial study of dairy DAF	CI
73	Stock feed opportunities	CI
74	Aquaculture Oil	PFR
75	PHA Biopolymer Production from processing residues	Scion
76	Bioactive proteins and peptides	AgR
77	Fruit pomace valorisation	CI
78	Recovery of additional value from vegetable streams	CI
80	Alternative product opportunities	CI
82	Effluent For Fire Fighting: natural textile flame retardant	University
88	Avocado 2	CI
91	Ginseng by-products v2	CI
94	Internship: Factors Affecting Rheological Characteristics of Putrescible Food Waste	University
95	Internship: Evaluating the potential for fungal biotechnology in NZ	University
97	Internship: Development of Aspen and Matlab dynamic models for fermentation	University
98	Internship: Bacterial biotransformation of waste material	University
101	High value foods from aquaculture species – Phase1	University
102	Potatoes - stage 1	PFR
107	PhD: Conversion of low value co-product streams into added value biomaterials by novel technologies	University
109	Fisheries by-product assessment	PFR
110	Fruit extract	CI
112	PhD: Wet Oxidation of Biomass Fundamental Investigation	University
117	Slow release fertilizers	Scion
118	Animal Feed/Biofuels	Scion
119	Rumen project	AgR
120	Chop Shop	AgR
122	Nutraceutical and Cosmetic Products	PFR
125	DAF 3	CI
126	PhD: Effect of indolicidin	University
127	High value vegetable extracts	PFR
128	Fruit pomace valorisation stage2	CI
130	PhD: High value compounds from waste	University
131	PhD: Collagen project	University
135	Bioconverting organic waste into ingredients	PFR
136	Adding value to recovered animal by-products	AgR
137	Cathelicidin	AgR
139-2	Biofuels	Scion
141	Using brewery bio residual waste	AgR
145	Techno-economic assessment of wood molasses	Scion
146-2	Biofuels Product Development and Market Analysis	Scion
149	Transforming Potatoes into High Value Products	PFR
151	Making Pet Food Ingredients	PFR

152	Internship: Ecoshark 1	PFR
153	Internship: Ecoshark 2	PFR
154	Masters: Microbial Fuel Cells	University
156	Salmon by-products	University
157	PhD: Aroma Compounds	University
162	Kiwifruit Processing and Products	CI
163	Internship: Powder for Protecting Wool from Insects	University
167	Improved Composites	Scion
168	Masters: Sheep Milk Whey	University
169	High Value Pet Treats from Fish Waste - Stage 1	University
172	Rendering Waste to High Value Product	AgR
174	Apple By-products	CI
175	Feed from Forestry	Scion
177	Manuka Opportunitites	Scion
178	Slow release fertilizers (2)	Scion
180	Dairy Derived By-products	CI
1501-03	Bioconverting Organic Waste Business Case	PFR
1503-02	Vanilla Opportunities	PFR
1503-03	Vanilla Project (related)	PFR
1603-01	Bionanomaterials from Protein Wastes	University
1606-01	DAF Projects (x2)	University
1607-01	Cathelicidin (2)	AgR
1608-01	Culture Media Peptones	University
1610-01	Polyphenols Separation	University
1611-01	Bioconverting Organic Waste	University
1705-01	Batteries with Waste	CI
1706-01	Shellfish Waste	PFR
1707-01	Pea Project	AgR
1709-01	Added Value for Poultry Waste	Scion
1710-01	Apple Pomace	PFR
1711-01	Meat-By-products	AgR
1712-01	Ginseng By-products (2)	University
1717-01	Squash Products	CI
1720-01	Added Value from Sawdust and Forest Residue	Scion
1801-01	Feed Stock for Snapper	University
1802-01	Kiwifruit Processing Project	Scion
1803-01	Oats Project	Scion
1804-01	Kiwifruit Post-Harvest Opportunities	University
1805-01	Pine Woodwaste Conversion	Scion
1807-01	Kiwifruit Flowers	Scion
1809-01	Seed Cakes	PFR
1810-01	Blood Project	AgR
1814-01	High Value Products from Sawdust	Scion
1815-01	Pet Food Project	AgR
1816-01	Pet Food Project (another)	AgR
1817-01	Fire Retardant	Scion
1818-01	Cathelicidin (related project)	AgR
1819-01	Flour Project	PFR
1820-01	Hemp Project	AgR
1822-01	Mussel Waste Project	CI
1825-01	Apple and Kiwifruit Characterisation	PFR
1826-01	3x Seafood Process Development Project	PFR
1827-01	Seed Oil Scale-up	CI

1828-01	Solid fuels from forestry residues	Scion
1829-01	Pork Project	AgR
1901-01	Kiwiberries Project	PFR
2004-01	PhD: Collagen project	University
2008-01	Feijoa Project	PFR
2009-01	Biochemicals from Biomass	Scion
2016-01	Extraction and Characterisation of Mussels	AgR
2017-01	Olive Mill Bioresource	CI
2018-01	Biochar from Wood and Boiler Ash	Scion
2021-01	Conversion of Apple Processing By-products	CI
2023-01	Conversion of Citrus Processing By-products	CI
2024-01	Added-value Avocado Products	CI
2025-01	Arable Resource Utilisation Study	Scion
2027-01	PhD: Melanosomes	University
2033-01	Grape By-product	PFR
2034-01	Bioconversion of one Meat Industry Sidestream	PFR
2035-01	Collagen Product	University