

Research on Food Waste Valorisation carried out by Research Institutes and Institutes of Higher Learning (IHL)

This is a non-exhaustive list of research projects carried out by local research institutes and IHLs, sorted by food side-streams.

You may find out more information on each project, including the researchers' contact information, by accessing the download link(s). Do approach the researchers if you have interest in exploring the technologies further.

Waste stream	Institute	Name of project	Download link
Okara/soy bean waste	NUS	Bio-processed okara for value-added healthy food products	https://go.gov.sg/nusokara
	NYP	Recycling Okara into Sustainable Value-Added Okara Spirulina Biscuits	https://go.gov.sg/nypokara
	RP	Use of Soya By-product as Aqua Feed	https://go.gov.sg/rpokara
Spent coffee grounds	NUS	Valorization of spent coffee grounds by biotransformation	https://go.gov.sg/nuscoffee
	NYP	A way to recycle coffee waste: Epoxy/ coffee waste biocomposite	https://go.gov.sg/nypcoffee
	RP	Valorisation of Spent Coffee Grounds for Hydroponic Farming	https://go.gov.sg/rpcoffee
Bread waste	NUS	Biovalorisation of market surplus bread for development of functional beverages	https://go.gov.sg/nusbread
Vegetable	FIRC	Shelf Life Extension & Value Addition for Vegetable Produce	https://go.gov.sg/fircvegetable
	NUS	Upcycling of bioactive constituents from agricultural byproducts: Proanthocyanidins (PACs)	https://go.gov.sg/nusvegetable
	NYP	Extruded potato-cabbage bites	https://go.gov.sg/nypvegetable
	SIT	SIT-Sustenir Collaboration: Maximizing the Potential of Kale	https://go.gov.sg/sitvegetable
Meat	NUS	Conversion of pork trimmings into protein hydrolysate	https://go.gov.sg/nusmeat
Seafood	NYP	Eco-friendly Method for Collagen Extraction from Fish Scales	https://go.gov.sg/nypseafood
Fruit & Vegetable Spent barley grains	SP	Potential collaborations with DFST	https://go.gov.sg/sp-fruit-vegetable-sbg
Okara/soy bean waste Spent barley grains Spent coffee grounds	SIT	Single Cell Protein	https://go.gov.sg/sit-singlecellprotein
Okara/soy bean waste Spent barley grains Spent coffee grounds Fruit & Vegetable	A*STAR	Waste valorisation initiatives across the value chain	https://go.gov.sg/astar-wastevalorisation