

### BMBRI Research Funding 2020-21

| Barley Cluster  |                                  |              | Funding Over Five Years (2018-23) |                |              |               |          |                   |
|---|----------------------------------|--------------|-----------------------------------|----------------|--------------|---------------|----------|-------------------|
| Project Title   | Lead Researcher                  | Organization | BMBRI                             | Other Industry | Government   | Total Funding | Leverage | Continued Funding |
| Breeding two-row malt, feed and food varieties  | Aaron Beattie                    | U of S       | \$ 65,000                         | \$ 480,535     | \$ 545,535   | \$ 1,091,070  | 16X      | Ongoing to 2023   |
| Breeding malting and food barley cultivars for western Canada   | Ana Badea                        | AAFC         | \$ 82,780                         | \$ 760,122     | \$ 842,902   | \$ 1,685,804  | 20X      | Ongoing to 2023   |
| Breeding barley for high yield and resistance to Fusarium head blight for eastern Canada                                  | Raja Khanal                      | AAFC         | \$ 28,639                         | \$ 447,900     | \$ 564,562   | \$ 1,041,101  | 36X      | Ongoing to 2023   |
| Phenotyping barley breeding lines and germplasm for disease resistance  | Kelly Turkington                 | AAFC         | \$ 7,119                          | \$ 115,731     | \$ 286,650   | \$ 409,500    | 56X      | Ongoing to 2023   |
| CropSNP: ultra-low cost genotyping in barley and soy  | Francois Belzile                 | U of Laval   | \$ -                              | \$ 150,248     | \$ 350,579   | \$ 500,827    | N/A      | Ongoing to 2023   |
| Barley pathogen variation and surveillance: implications for managing disease via host resistance and fungicides          | Kelly Turkington                 | AAFC         | \$ 13,000                         | \$ 179,860     | \$ 450,004   | \$ 642,864    | 49X      | Ongoing to 2023   |
| Developing barley germplasm with improved resistance to Fusarium head blight and other biotic stresses for western Canada | James Tucker                     | AAFC         | \$ 90,000                         | \$ 516,240     | \$ 1,414,558 | \$ 2,020,798  | 22X      | Ongoing to 2023   |
| Study of Barley Quality and Process Factors that can produce Malt with potential Premature Yeast Flocculation             | Yueshu Li                        | CMBTC        | \$ 19,000                         | \$ 91,000      | \$ 110,000   | \$ 220,000    | 11X      | Ongoing to 2023   |
| Examination and definition of flavours and aromas and their precursors in malting barley cultivars                        | Yueshu Li                        | CMBTC        | \$ 19,000                         | \$ 131,000     | \$ 150,000   | \$ 300,000    | 15X      | Ongoing to 2023   |
| Enhancing competitive value of barley in swine diets  | Ruurd Zijlstra                   | U of A       | \$ -                              | \$ 129,584     | \$ 302,357   | \$ 431,941    | N/A      | Ongoing to 2023   |
| In-crop management strategies to reduce the impact of Fusarium head blight in barley                                      | Kelly Turkington                 | AAFC         | \$ 8,600                          | \$ 143,860     | \$ 355,740   | \$ 508,200    | 59X      | Ongoing to 2023   |
| The influence of preceding legumes and nitrogen management on malt barley yield and quality across Canada                 | Aaron Mills/<br>Breanne Tidemann | AAFC         | \$ 20,000                         | \$ 115,000     | \$ 315,000   | \$ 450,000    | 22X      | Ongoing to 2023   |
| <b>Total</b>  |                                  |              | \$ 353,138                        | \$ 3,261,080   | \$ 5,687,887 | \$ 9,302,105  | 27X      |                   |

| Integrated Crop Agronomy Cluster (ICAC)  |                        |              | Funding Over Five Years (2018-23) |                |              |               |          |                   |
|--|------------------------|--------------|-----------------------------------|----------------|--------------|---------------|----------|-------------------|
| Project Title  | Lead Researcher        | Organization | BMBRI                             | Other Industry | Government   | Total Funding | Leverage | Continued Funding |
| The population structure of Fusarium pathogens of small grain cereals, their distribution and relationship to mycotoxins | Bullock/ Randy Kutcher | AAFC/U of S  | \$ 20,000                         | \$ 536,391     | \$ 1,298,245 | \$ 1,854,636  | 92X      | Ongoing to 2023   |

| Projects from the ICAC Call; Funded Outside  |                         |                          | Funding Over Five Years (2018-23) |                |            |               |          |                   |
|--|-------------------------|--------------------------|-----------------------------------|----------------|------------|---------------|----------|-------------------|
| Project Title  | Lead Researcher         | Organization             | BMBRI                             | Other Industry | Government | Total Funding | Leverage | Continued Funding |
| Economic value of diversified cropping systems   | Elwin Smith             | University of Lethbridge | \$ 10,000                         | \$ 264,045     | \$ -       | \$ 274,045    | 27X      | Ongoing to 2023   |
| The population structure of Fusarium pathogens of small grain cereals, their distribution and relationship to mycotoxins | Dilantha Fernando/ Wang | U of M/ AAFC             | \$ 20,000                         | \$ 820,075     | \$ -       | \$ 840,075    | 42X      | Ongoing to 2023   |

**BMBRI Research Funding 2020-21**

| BMBRI Grants  |                  |              | Funding 2019-20 |                |            |               |               |                  |                                |
|---|------------------|--------------|-----------------|----------------|------------|---------------|---------------|------------------|--------------------------------|
| Project Title   | Lead Researcher  | Organization | BMBRI           | Other Industry | Government | Total Funding | Leverage      | Notes            | Continued Funding              |
| The germinating seed microbe ecosystem of barley malt | Marta Izydorczyk | CGC          | \$ 20,000       | \$ -           | \$ -       | \$ 20,000     | No Leveraging | One year project | No requests for future funding |