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The following Special Issue of *Current Issues in Molecular Biology* comprises an Editorial and 19 studies highlighting advancements in molecular breeding, genomics, and gene characterization to enhance crop yield, stress tolerance, and disease resistance. Together, these studies offer valuable insights to support sustainable agriculture and cover five key topics: (i) advances in molecular breeding and genetics; (ii) stress tolerance and environmental adaptation; (iii) plant health and resistance to weeds and diseases; (iv) anthocyanin biosynthesis and pigmentation; and (v) specialized functional studies. Collectively, these contributions present innovative findings that advance our understanding of molecular breeding and genetics in plants.



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