

---

## Contents

<b>1</b>	<b>Foxtail Millet: An Introduction . . . . .</b>	<b>1</b>
	Roshan Kumar Singh, Mehanathan Muthamilarasan and Manoj Prasad	
<b>2</b>	<b>Foxtail Millet Genome Sequencing, Assembly, Annotation, and Application . . . . .</b>	<b>11</b>
	Mehanathan Muthamilarasan, Shweta Shweta and Manoj Prasad	
<b>3</b>	<b>Transposable Elements in <i>Setaria</i> Genomes . . . . .</b>	<b>23</b>
	Chandra Bhan Yadav and Manoj Prasad	
<b>4</b>	<b>Exploiting Genome Sequence Information to Develop Genomic Resources for Foxtail Millet Improvement. . . . .</b>	<b>37</b>
	Mehanathan Muthamilarasan and Manoj Prasad	
<b>5</b>	<b>Breeding Strategies in Foxtail Millet . . . . .</b>	<b>53</b>
	K. Hariprasanna, Jinu Jacob, Parashuram Patroti and K.B.R.S Visarada	
<b>6</b>	<b>Genome-Wide Association Studies for Improving Agronomic Traits in Foxtail Millet . . . . .</b>	<b>63</b>
	Roshan Kumar Singh and Manoj Prasad	
<b>7</b>	<b>Genetic Structure of Foxtail Millet Landraces . . . . .</b>	<b>77</b>
	Kenji Fukunaga	
<b>8</b>	<b>Genetic Determinants of Abiotic Stress Tolerance in Foxtail Millet. . . . .</b>	<b>85</b>
	Charu Lata and Radha Shivhare	
<b>9</b>	<b>Genetic Transformation of <i>Setaria</i>: A New Perspective. . . .</b>	<b>105</b>
	Priyanka Sood and Manoj Prasad	
<b>10</b>	<b>Nutrition Potential of Foxtail Millet in Comparison to Other Millets and Major Cereals . . . . .</b>	<b>123</b>
	Tirthankar Bandyopadhyay, Vandana Jaiswal and Manoj Prasad	

<b>11 Regulation of Development and Stress Response by miRNAs . . . . .</b>	<b>137</b>
Amita Yadav, Gunaseelen Hari-Gowthem, Mehanathan Muthamilarasan and Manoj Prasad	

The Foxtail Millet Genome

Prasad, M. (Ed.)

2017, XVI, 152 p. 17 illus., 16 illus. in color., Hardcover

ISBN: 978-3-319-65616-8