

MEA Plant Breeding and CRISPR Plant Market - Industry Trends and Forecast to 2029

Market Report | 2022-10-01 | 192 pages | Data Bridge Market Research

AVAILABLE LICENSES:

- Single User License \$3500.00
- Corporate Users License \$4200.00

Report description:

Middle East and Africa plant breeding and CRISPR plant market is projected to register a CAGR of 15.3% in the forecast period of 2022 to 2029. The new market report contains data for the historic year 2021, the base year of calculation is 2022 and the forecast period is 2022 to 2029.

Market Segmentation:

Middle East and Africa Plant Breeding and CRISPR Plant Market, By Type (Conventional Method, Biotechnological Method and Genetic Engineering), Trait (Herbicide Tolerance, Disease Resistance, Yield Improvement, Temperature Tolerance, Grain Size Improvement, Stress Tolerance, Drought Resistance, Others), Application Size (Cereals & Grains, Oilseed & Pulses, Fruits & Vegetables, Cash crops, Turf & Ornamental, Herbs & Microgreens, Medicinal Crops and Others), Country (South Africa, Saudi Arabia, U.A.E., Israel, Egypt and Rest of Middle East and Africa) Industry Trends and Forecast to 2029

Some of the major factors contributing to the growth of the Middle East and Africa plant breeding and CRISPR plant market are:

- The growing trend towards increase in Middle East and Africa population
- Growing R&D activities for crops for better yield

Market Players:

The key market players for Middle East and Africa plant breeding and CRISPR plant market are listed below:

- Bayer AG
- Syngenta Group
- Corteva, Inc.
- Limagrain
- KWS SAAT SE & Co. KGaA
- BASF SE
- DLF Seed & Science
- Invivo

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- Sakata Seed Corporation
- DONMARIO
- RAGT SEMENCES SAS
- UPL
- Benson Hill Inc
- TMG Tropical Melhoramento & Genetica SA
- Bioceres Crop Solutions
- Stine Seed Company
- Pairwise Plants Services
- Tropic Biosciences UK LTD
- Yield10 Bioscience, Inc.

Table of Contents:

TABLE OF CONTENTS

1 INTRODUCTION	38
1.1 OBJECTIVES OF THE STUDY	38
1.2 MARKET DEFINITION	38
1.3 OVERVIEW OF THE MIDDLE EAST & AFRICA PLANT BREEDING AND CRISPR PLANT MARKET	38
1.4 CURRENCY AND PRICING	40
1.5 LIMITATIONS	40
1.6 MARKETS COVERED	41
2 MARKET SEGMENTATION	47
2.1 MARKETS COVERED	47
2.2 GEOGRAPHICAL SCOPE	48
2.3 YEARS CONSIDERED FOR THE STUDY	49
2.4 DBMR TRIPOD DATA VALIDATION MODEL	50
2.5 PRIMARY INTERVIEWS WITH KEY OPINION LEADERS	53
2.6 MULTIVARIATE MODELLING	54
2.7 MARKET APPLICATION COVERAGE GRID	55
2.8 SOURCE LIFELINE CURVE	56
2.9 DBMR MARKET POSITION GRID	57
2.10 VENDOR SHARE ANALYSIS	58
2.11 SECONDARY SOURCES	59
2.12 ASSUMPTIONS	59
3 EXECUTIVE SUMMARY	60
3.1 MIDDLE EAST & AFRICA PLANT BREEDING AND CRISPR PLANTS MARKET: CONSUMER BUYING BEHAVIOUR	63
3.1.1 RECOMMENDATIONS FROM FAMILY & FRIENDS-	64
3.1.2 RESEARCH	64
3.1.3 IMPULSIVE	64
3.1.4 ADVERTISEMENT:	65
3.1.5 TELEVISION ADVERTISEMENT	65
3.1.6 ONLINE ADVERTISEMENT	65
3.1.7 IN-STORE ADVERTISEMENT	65
3.1.8 OUTDOOR ADVERTISEMENT	65
4 SUPPLY CHAIN OF MIDDLE EAST & AFRICA PLANT BREEDING AND CRISPR PLANTS MARKET	66

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

4.1 BAYER	66
4.1.1 PROCUREMENT	67
4.1.2 SUSTAINABILITY IN THE SUPPLY CHAIN	67
4.1.3 BAYER TRANSPORTATION AND ENVIRONMENT SAFETY IN SUPPLY CHAIN-	68
4.2 SYNGENTA GROUP	68
4.2.1 WORKING WITH SUPPLIERS	68
4.2.2 KEY PERFORMANCE INDICATORS AND BASIS OF PREPARATION-	69
4.3 UPCOMING TRENDS	71
5 BRAND COMPETITIVE ANALYSIS MIDDLE EAST & AFRICA PLANT BREEDING AND CRISPR PLANTS MARKET	73
6 MIDDLE EAST & AFRICA PLANT BREEDING AND CRISPR PLANT MARKET: REGULATIONS	74
7 MARKET OVERVIEW	79
7.1 DRIVERS	81
7.1.1 RISE IN R&D FOR PLANT BREEDING & CRISPR PLANTS	81
7.1.2 THE SURGE IN THE MIDDLE EAST & AFRICA POPULATION LED TO AN INCREASE IN THE DEMAND FOR FOOD PRODUCTION	81
7.1.3 RISE IN AWARENESS ABOUT PLANT BREEDING & CRISPR PLANTS THROUGH VARIOUS PROGRAMMES	81
7.1.4 RISING IN NUMBER OF LAUNCHES BY MANUFACTURERS FOR PLANT BREEDING & CRISPR PLANTS	82
7.2 RESTRAINTS	82
7.2.1 HIGH COSTS ARE ASSOCIATED WITH THE MODERN BREEDING TECHNIQUES AS COMPARED TO CONVENTIONAL BREEDING TECHNIQUES	82
7.2.2 POTENTIAL HAZARD TO HUMAN HEALTH DUE TO UNDESIRE TOXIN GENERATED FROM CROPS PRODUCED BY BREEDING METHOD	83
7.3 OPPORTUNITIES	83
7.3.1 FLUCTUATING WEATHER CONDITIONS WILL INCREASE THE OPPORTUNITY FOR PLANT BREEDING & CRISPR TECHNIQUE	83
7.3.2 INCREASE IN NUMBER OF APPROVAL BY GOVERNMENTAL BODIES FOR PLANT BREEDING	84
7.4 CHALLENGE	84
7.4.1 UNORGANIZED RETAIL NETWORK	84
8 MIDDLE EAST & AFRICA PLANT BREEDING AND CRISPR PLANTS MARKET, BY TYPE	85
8.1 OVERVIEW	86
8.2 CONVENTIONAL BREEDING	89
8.2.1 HYBRIDIZATION	89
8.2.2 SELECTION	89
8.2.3 MUTATION BREEDING	89
8.3 BIOTECHNOLOGICAL METHOD	90
8.3.1 CELL AND TISSUE CULTURE	90
8.3.2 MOLECULAR MARKERS	90
8.3.3 PHENO TYPING	90
8.4 GENETIC ENGINEERING	91
8.4.1 RFLP	91
8.4.2 GENE TRANSFER	91
8.4.3 TRANSGENE EXPRESSION	92
8.4.4 SELECTION AND PLANT REGENERATION	92
9 MIDDLE EAST & AFRICA PLANT BREEDING & CRISPR PLANT MARKET, BY TRAIT	93
9.1 OVERVIEW	94
9.2 HERBICIDES TOLERANCE	97
9.3 YIELD IMPROVEMENT	97
9.4 DISEASE RESISTANCE	98
9.5 TEMPERATURE TOLERANCE	98

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

9.6 GRAIN SIZE IMPROVEMENT	99
9.7 STRESS TOLERANCE	99
9.8 DROUGHT RESISTANCE	100
9.9 OTHERS	100
10 MIDDLE EAST & AFRICA PLANT BREEDING AND CRISPR PLANT MARKET, BY APPLICATION	101
10.1 OVERVIEW	102
10.2 CEREAL & GRAINS	105
10.2.1 MAIZE	105
10.2.2 WHEAT	105
10.2.3 RICE	106
10.2.4 OATS	106
10.2.5 OTHERS	106
10.3 OILSEED & PULSES	106
10.3.1 SOYBEAN	107
10.3.2 SUNFLOWER	107
10.3.3 PEA	107
10.3.4 GRAM	107
10.3.5 OTHERS	107
10.4 FRUITS & VEGETABLES	108
10.4.1 BANANA	109
10.4.2 POTATO	109
10.4.3 TOMATO	109
10.4.4 APPLE	109
10.4.5 ORANGE	109
10.4.6 GRAPEFRUIT	109
10.4.7 BERRIES	109
10.4.8 CUCUMBERS	109
10.4.9 CARROTS	109
10.4.10 EGGPLANT	109
10.4.11 BROCCOLI	110
10.4.12 LEAFY GREEN	110
10.4.12.1 SPINACH	110
10.4.12.2 LETTUCE	110
10.4.12.3 CABBAGE	110
10.4.12.4 KALE	110
10.4.12.5 OTHERS	110
10.4.13 OTHERS	110
10.5 CASH CROPS	111
10.5.1 COFFEE & TEA	111
10.5.2 COTTON	111
10.5.3 SUGARCANE	112
10.5.4 OTHERS	112
10.6 TURF & ORNAMENTAL	112
10.7 HERBS AND MICROGREENS	112
10.7.1 HERBS	113
10.7.2 BASIL	113
10.7.3 WHEATGRASS	113

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

10.8 MEDICINAL CROP	113
10.9 OTHER CROP TYPES	114
11 MIDDLE EAST & AFRICA PLANT BREEDING AND CRISPR PLANTS MARKET, BY GEOGRAPHY	115
11.1 MIDDLE EAST & AFRICA	116
11.1.1 SOUTH AFRICA	124
11.1.2 SAUDI ARABIA	128
11.1.3 UAE	132
11.1.4 OMAN	136
11.1.5 QATAR	140
11.1.6 KUWAIT	144
11.1.7 REST OF MIDDLE EAST AND AFRICA	148
12 MIDDLE EAST & AFRICA PLANT BREEDING AND CSIPR PLANT MARKET: COMPANY LANDSCAPE	149
12.1 COMPANY SHARE ANALYSIS: MIDDLE EAST & AFRICA	149
13 SWOT ANALYSIS	150
14 COMPANY PROFILE	151
14.1 BAYER AG	151
14.1.1 COMPANY SNAPSHOT	151
14.1.2 REVENUE ANALYSIS	151
14.1.3 COMPANY SHARE ANALYSIS	152
14.1.4 PRODUCT PORTFOLIO	152
14.1.5 RECENT DEVELOPMENTS	153
14.2 SYNGENTA CROP PROTECTION AG	154
14.2.1 COMPANY SNAPSHOT	154
14.2.2 REVENUE ANALYSIS	154
14.2.3 COMPANY SHARE ANALYSIS	155
14.2.4 PRODUCT PORTFOLIO	155
14.2.5 RECENT DEVELOPMENTS	155
14.3 CORTEVA (2021)	156
14.3.1 COMPANY SNAPSHOT	156
14.3.2 REVENUE ANALYSIS	156
14.3.3 COMPANY SHARE ANALYSIS	157
14.3.4 PRODUCT PORTFOLIO	157
14.3.5 RECENT DEVELOPMENTS	158
14.4 LIMAGRAIN	159
14.4.1 COMPANY SNAPSHOT	159
14.4.2 COMPANY SHARE ANALYSIS	159
14.4.3 PRODUCT PORTFOLIO	160
14.4.4 RECENT DEVELOPMENTS	160
14.5 KWS SAAT SE & CO. KGAA (2021)	161
14.5.1 COMPANY SNAPSHOT	161
14.5.2 REVENUE ANALYSIS	161
14.5.3 COMPANY SHARE ANALYSIS	162
14.5.4 PRODUCT PORTFOLIO	162
14.5.5 RECENT DEVELOPMENTS	163
14.6 BASF SE	164
14.6.1 COMPANY SNAPSHOT	164
14.6.2 REVENUE ANALYSIS	164

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

14.6.3	PRODUCT PORTFOLIO	165
14.6.4	RECENT DEVELOPMENT	165
14.7	BENSON HILL INC.	166
14.7.1	COMPANY SNAPSHOT	166
14.7.2	REVENUE ANALYSIS	166
14.7.3	PRODUCT PORTFOLIO	167
14.7.4	RECENT DEVELOPMENTS	167
14.8	BIOCERES CROP SOLUTIONS	168
14.8.1	COMPANY SNAPSHOT	168
14.8.2	PRODUCT PORTFOLIO	168
14.8.3	RECENT DEVELOPMENT	168
14.9	DLF	169
14.9.1	COMPANY SNAPSHOT	169
14.9.2	PRODUCT PORTFOLIO	169
14.9.3	RECENT DEVELOPMENTS	169
14.10	DONMARIO (2021)	170
14.10.1	COMPANY SNAPSHOT	170
14.10.2	PRODUCT PORTFOLIO	170
14.10.3	RECENT DEVELOPMENTS	170
14.11	INVIVO.(2021)	171
14.11.1	COMPANY SNAPSHOT	171
14.11.2	PRODUCT PORTFOLIO	171
14.11.3	RECENT DEVELOPMENT	171
14.12	PAIRWISE (2021)	172
14.12.1	COMPANY SNAPSHOT	172
14.12.2	PRODUCT PORTFOLIO	172
14.12.3	RECENT DEVELOPMENTS	172
14.13	PLANASA (2021)	173
14.13.1	COMPANY SNAPSHOT	173
14.13.2	PRODUCT PORTFOLIO	173
14.13.3	RECENT DEVELOPMENTS	174
14.14	RAGT (2021)	175
14.14.1	COMPANY SNAPSHOT	175
14.14.2	PRODUCT PORTFOLIO	175
14.14.3	RECENT DEVELOPMENTS	175
14.15	SAKATA SEED CORPORATION (2021)	176
14.15.1	COMPANY SNAPSHOT	176
14.15.2	REVENUE ANALYSIS	176
14.15.3	PRODUCT PORTFOLIO	177
14.15.4	RECENT DEVELOPMENT	178
14.16	STINE SEED COMPANY. (A SUBSIDIARY OF STINE SEED FARM, INC) (2021)	179
14.16.1	COMPANY SNAPSHOT	179
14.16.2	PRODUCT PORTFOLIO	179
14.16.3	RECENT DEVELOPMENTS	180
14.17	TMG TROPICAL IMPROVEMENT & GENETICS SA (2021)	181
14.17.1	COMPANY SNAPSHOT	181
14.17.2	PRODUCT PORTFOLIO	181

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

14.17.3 RECENT DEVELOPMENTS	182
14.18 TROPIC	183
14.18.1 COMPANY SNAPSHOT	183
14.18.2 PRODUCT PORTFOLIO	183
14.18.3 RECENT DEVELOPMENTS	184
14.19 UPL (2021)	185
14.19.1 COMPANY SNAPSHOT	185
14.19.2 REVENUE ANALYSIS	185
14.19.3 PRODUCT PORTFOLIO	186
14.19.4 RECENT DEVELOPMENT	186
14.20 YIELD10 BIOSCIENCE, INC.	187
14.20.1 COMPANY SNAPSHOT	187
14.20.2 REVENUE ANALYSIS	187
14.20.3 PRODUCT PORTFOLIO	188
14.20.4 RECENT DEVELOPMENT	188
15 QUESTIONNAIRE	189
16 RELATED REPORTS	192

MEA Plant Breeding and CRISPR Plant Market - Industry Trends and Forecast to 2029

Market Report | 2022-10-01 | 192 pages | Data Bridge Market Research

To place an Order with Scotts International:

- ☐ - Print this form
- ☐ - Complete the relevant blank fields and sign
- ☐ - Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Single User License	\$3500.00
	Corporate Users License	\$4200.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2025-05-09"/>
		Signature	<input type="text"/>

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com