

Index

A

Aaron deGrassi, 126
Africa, 40, 51
Africa Biofortified Sorghum (ABS) Project, The, 131
African Union (AU), 129
Agrichemical, 71, 76, 80
Agricultural research, 129
Agriculture, 67, 68, 88, 90, 103, 111, 112
Agriculture toxic, 74
Agrobacterium, 21, 24–27, 31–33
Ann Depicker, 12
Anne Knupp Crossway, 11
Anti-GM, 125–128

B

Bacillus thuringiensis (Bt), 8, 9, 14, 51, 59, 73, 74, 78, 77, 90, 128, 144
Bt crop(s), 61, 62, 68
Bt plants, 61, 62
Bt proteins, 59–61, 63, 64
Bt resistance, 61
Bacteria, 10, 25, 26, 30, 32
Bacterium, 86
Barbara Hohn, 8, 9
Barbara Mazur, 11
Barbara McClintock, 5, 9, 10
Biochemistry, 59, 63, 71, 865–88, 92, 94
Biology, 85–89, 92, 94
 microbiology, 11
 plant biology, 1, 11, 12
Biopharmaceutical(s), 115, 116, 119
Bioprocessing, 108, 115, 118, 122
Biotech, 71, 74, 75, 77, 79–81, 128, 131
Biotechnology, 1, 7, 8, 11–14, 39, 48–53, 55, 59, 61, 71, 76, 80, 82, 85, 87, 89, 90, 93, 94, 97, 98, 101–105, 108, 109, 111, 114, 120

Biowatch, 128
BTEC, 118, 122
Btk, 60, 61, 63
Bt protein, 73–76, 78
Burkina Faso, 129

C

Canada, 75, 77
Center, The, 97–103, 105, 107, 109, 118, 120, 122
Climate, 36
Comprehensive African Agricultural Development Program (CAADP), 129
Corn, 73, 75, 76, 78, 137–139, 141, 144, 146, 149
Croplife International (CLI), 129
Crops, 136–140, 144, 148–150
Cry9C, 65, 66

D

DNA, 6–11, 24–29, 31–33, 39, 40, 42–46, 75
DNA. Genes, 41, 42
DNA r-DNA, 47
Dr Ben Odhiambo, 126
Dr Francis Nang'ayo, 126
Drought, 139, 149

E

Education, 98, 100, 103, 104, 106, 108, 111, 114, 115, 117, 119, 120, 122
Education grant, 120
Education project(s), 97, 103, 105
Egypt, 129, 131
Elizabeth Hood, 12
Enzyme, 24, 25, 28, 29, 31, 61, 63
EPA, 48, 49, 51, 75–78, 90, 91
Estella Eleanor Carothers, 4
Escherichia coli, 88

- EU, 51
Europe, 51, 52, 77
- F**
Farmers, 130, 131
Farms, 136, 137, 141, 145, 148
FDA, 15, 48, 49, 51, 74–76
Forum for Agricultural Research in Africa (FARA), 129
FPPA, 90
- G**
GE, 48, 49, 90–93
 crops, 89–91, 93
Genes, 26–28, 30–33, 39–41, 44–48, 55, 59, 65, 72, 79, 80
Gene technology, 61
Genetically Modified (GM), 50–52, 56, 113, 114, 126, 129
 crop, 126, 127, 129, 133
 debate, 125, 128
 lobby, 125
 technology, 125, 127–130, 132
Genetic code, 61
GEO, 86, 91, 92, 94
GE plants, 90
Gerty Cori, 4
Ghana, 129
Glyphosate, 140, 144, 146, 148, 149
GMO, 49, 50, 52, 53, 55, 91, 113, 128, 140, 141, 144–146, 148, 149
 seeds, 140
 soybeans, 140
 technology, 145, 148, 149
- H**
Herbicide, 67, 68, 141, 146, 148
Hildegard of Bingen, 2
Hybrid, 137, 140, 148
- I**
Indra, 7
Insects, 61, 62
ISAAA, 128
- J**
Jane Colden, 3
Jane Haldimand Marcet, 3
Japan, 51, 75, 77
Josephine Ettel Kablick (Josefina Kabliková), 4
- K**
Kenya, 126–128, 130, 132
- L**
Lydia Villa-Komaroff, 10
- M**
Maize, 40–46, 75, 77
Marie Anne Pierrette Paulze Lavoisier, 3
Marie Meurdrac, 2
Martha Wright, 9
Mary-Dell Chilton, 8
Maud Hinchee, 13
Miriam the Alchemist, 2
- N**
NASEM, 89, 93
National Institutes of Health (NIH), 46, 47
NCBitech, 97, 100
New Partnership for Africa’s Development (NEPAD), 129
NGO, 52
Nigeria, 129, 131, 132
Nina Fedoroff, 9
Norma Trolinder, 7, 8
North Carolina, 97–99, 101, 102, 105, 110, 114, 119, 121, 122
North Carolina Biotechnology Center, The, 97, 98
- O**
Organic
 agriculture, 52
 farmer, 50
 food, 52
 movement, 52
 retailers, 52
 rule, 52
 seal, 52
 standard, 52
- P**
Pamela Ronald, 13
Patricia Zambryski, 10, 11
Pesticide, 61, 68
Pharmaceuticals, 63
Plant biotechnology, 33, 34
Plant cells, 24–26, 29, 31, 32
Plants, 71, 74, 77–79
Prototoxins, 60

R

Recombinant DNA Advisory Committee
(RAC), 47, 48
RNA, 75
Rosalind Franklin, 6, 7
RoundUp Ready alfalfa, 145, 146

S

Sf9, 64
Soil, 139, 140, 144, 149
South Africa, 128, 129, 131
Students, 104–106, 108, 110, 113, 119, 121,
122
Sudan, 129
Sustainable agriculture, 1, 13, 14

T

Tapputi (Tapputi-Belatekallim), 1
T-DNA, 28–33
Teachers, 97, 98, 103–112, 118, 120, 122

Ti plasmid, 27, 29–32

Toxic, 49, 51
Toxicity, 76, 80
Toxicology, 76
Toxin, 47, 64, 66
Tumor, 25–32

U

U.S., 51, 53
USDA, 7, 14, 48, 49, 51, 52, 74–76, 88–90,
145

V

Vimla Vasil, 7
Virginia Walbot, 10
Virus, 85, 90, 126, 127

W

Wet, 139, 146, 149