

**Add additional
safety
procedures
based on the
“Swiss Cheese
Model”**

measure card

**Add materials
for containment**

measure card

**Always have
a doctor on
standby (video
conference)**

measure card

**Add cleaning
tools**

measure card

**Add materials
to instantly
kill a GMO
when in open
environment**

measure card

**Always have
neutralization
substances
present**

measure card



**Cards
for
Biosafety**

measure card



**Cards
for
Biosafety**

measure card



**Cards
for
Biosafety**

measure card



**Cards
for
Biosafety**

measure card



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measure card



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for
Biosafety**

measure card

**Application
of 1 in 5 or 6
crop rotation
to ensure that
the ecosystem
can recover**

measure card

Ban entirely

measure card

**Build on
experiments
proven to
be safe**

measure card

**Automated
backup system**

measure card

**Build
greenhouses**

measure card

**Bureau
Biosecurity
Dual-Use
Quick scan**

measure card



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Burn organism

measure card

**Call a
responsible
authority**

measure card

**Change clothing
in another room
and use airlocks**

measure card

**Burn
remainders
of GM-crops**

measure card

**Call through
media (burglar
to report)**

measure card

**Check multiple
times on
identity**

measure card



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**Check whether
mobile phones
are turned
on/off**

measure card

**Communicate
problems
quickly**

measure card

**Destroy
thoroughly**

measure card

**Collect all
flowers**

measure card

**Count the
lab animals
regularly**

measure card

**Directly inform
PI/Technician
& Call technical
support**

measure card



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**Do a health
check**

measure card

**Do pollination
artificially**

measure card

**Don't inject
hazardous
substances
directly, only via
IV (intravenous
drip)**

measure card

**Do evacuation
drills regularly**

measure card

**Don't allow
visitors**

measure card

**Explain risks
of getting
pregnant
(again)**

measure card



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**Follow
E-learning
courses**

measure card

**Follow the four-
eyes principle**

measure card

**Freezing
or heating
an escaped
organism**

measure card

**Follow multiple
generations**

measure card

**Follow the
yearly safety/
security
training**

measure card

**Give good
compensation**

measure card



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**Give test
animals a
GPS tracker**

measure card

**Guarantee a
non-slip floor**

measure card

Hang a shotgun

measure card

**GMO packaging
should show
clear disposal
instructions**

measure card

**Hang a fire
extinguisher**

measure card

**Hang a sign:
"Time since
last incident:
100 days!"**

measure card



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**Hang cameras
with AI software**

measure card

**Hang nets
over GM-field**

measure card

**Have an
independent
regulator**

measure card

**Hang intelligent
cameras**

measure card

**Hang security
procedures
all over**

measure card

**Have audits
and check-ups**

measure card



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**Have digital
entries double-
checked**

measure card

**Have it checked
and signed off
by a colleague**

measure card

**Have strict
intakes**

measure card

**Have guests
searched before
entering**

measure card

**Have labelling
checked twice
by different
people**

measure card

**Have strict
security
procedures**

measure card



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Hire a security guard

measure card

Inclusion of a chemically controlled gene switch

measure card

Inform Technician

measure card

Include experts

measure card

Inform PI/ Technician

measure card

Inspect regularly

measure card



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**Install a
Faraday cage**

measure card

**Install
emergency
doors**

measure card

**Integrate
risk research
into research
programs**

measure card

**Install alarm
app on
supervisor's
cell phone**

measure card

Install fire doors

measure card

**Intensified
police
investigation**

measure card



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**Investigate
long-term
effects**


measure card

Just don't do it


measure card

Just don't do it


measure card

Just don't do it


measure card

Just don't do it


measure card

Just don't do it


measure card



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**Keep an agenda
for activities
in and around
the lab**

measure card

Kill it with fire

measure card

**Let employees
and guests
sign safety
instructions**

measure card

**Keep the lab off
the internet**

measure card

**Let an AI go over
digital entries**

measure card

**Let entry
passes expire
automatically,
employees
need to renew
every week**

measure card



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**Letting
something
really go wrong
as an exercise**

measure card

**Maintain a
wound care
book**

measure card

**Make an
extensive
evacuation
protocol**

measure card

**Limit the
operation of the
GMO to specific
conditions**

measure card

**Make access
very difficult**

measure card

**Make
instructions
in several
languages**

measure card



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**Make rooms
classy and cosy**

measure card

**Make use of
decoys**

measure card

**Make use of
registration and
identification**

measure card

**Make sure
there is enough
distance
between plants**

measure card

**Make use
of plastic
packaging**

measure card

**Make use of
safety lines**

measure card



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**Make use of
safety shoes
obligatory**

measure card

**Monitor
over time**

measure card

**Only have
small doses
of hazardous
substances
available**

measure card

**Mandatory
training for
guests**

measure card

**Only allow
guests behind
screens**

measure card

**Only make step-
by-step small
adjustments**

measure card



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**Only visit in
hazmat clothing**

measure card

**Personal ban on
blood donation**

measure card

**Place a mine
canary**

measure card

**Only work with
one gender**

measure card

**Place a first
aid for GMO
accidents box**

measure card

**Place a tank
in front of
the door**

measure card



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**Place an
emergency
generator**

measure card

**Place handcuff
on GMO boxes**

measure card

**Place notable
stickers on
waste: "NO
GMO HERE"**

measure card

Place fences

measure card

**Place large
signs with
warnings**

measure card

**Place oxygen
tanks for
breathing**

measure card



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Biosafety**

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**Place
scarecrows**

measure card

**Place toilets
and showers
that are not
connected to
the sewers**

measure card

**Post
regulations in
a highly visible
manner**

measure card

**Place smoke
detectors**

measure card

**Play “Cards for
Biodiversity”
with the team
every week**

measure card

**Provide all
drainage with a
GMO destructor
(UV, heat, acid,
sterilize)**

measure card



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**Provide
counselling**

measure card

**Put a kill switch
in the organism**

measure card

**Remove pollen
from plant**

measure card

Punishment!

measure card

**Quarantine
monitoring**

measure card

**Restriction on
publication
of results**

measure card



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**Cards
for
Biosafety**

measure card

**Reward good
behaviour:
"Safest
employee of
the month"**

measure card

**Scan everything
into the
computer**

measure card

**Security check
on all data
carriers**

measure card

**Role-play a
burglary as
exercise**

measure card

Sealing the lab

measure card

**Set activity
protocols**

measure card



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**Cards
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Biosafety**

measure card

**Spread
circumstances
substantially**

measure card

**Strict access
policy**

measure card

**Strict
thresholds
on input**

measure card

**State a think-
aloud protocol**

measure card

**Strict
protocols for
interruptions
of study**

measure card

**Take a
short online
course with
certification**

measure card



**Cards
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Biosafety**

measure card



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Biosafety**

measure card



**Cards
for
Biosafety**

measure card

**Take mop
and clean**

measure card

**Test on
animals first**

measure card

Test, test, test

measure card

**Test for
unwanted
adjustments,
e.g. by
sequencing
entire DNA**

measure card

**Test with large
numbers**

measure card

Throw it way

measure card



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measure card



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**Cards
for
Biosafety**

measure card

**Train managers
about
international
procedures**

measure card

**Use a robot-
controlled lab**

measure card

Use auxotrophy

measure card

**Update cards
often**

measure card

**Use a tracker on
a mobile phone**

measure card

**Use biosensors
- Biosensor**

measure card



**Cards
for
Biosafety**

measure card



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**Cards
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measure card

**Use birds
of prey**

measure card

**Use checklists
and lab journals**

measure card

**Use colour
codes and icons**

measure card

**Use cell lines
instead of
human subjects**

measure card

**Use clear
protocols**

measure card

**Use colours
and symbols**

measure card



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**Use dedicated
and well
shielded
communication
tools**

measure card

Use E-logbooks

measure card

**Use fake
materials
and setups**

measure card

**Use double
blinded studies**

measure card

**Use enough
spread in
type of host**

measure card

**Use
gamification
techniques**

measure card



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**Cards
for
Biosafety**

measure card

Use gloves

measure card

Use isolation

measure card

Use locks

measure card

**Use insect
repellant**

measure card

**Use Kevlar
materials**

measure card

**Use low air
pressure**

measure card



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**Cards
for
Biosafety**

measure card

**Use markers
for control
purposes**

measure card

**Use padding in
GMO containers**

measure card

**Use personal
protection**

measure card

Use models first

measure card

**Use paper
backup for
systems**

measure card

Use placebos

measure card



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**Use sound as
a repellent**

measure card

**Use step-
by-step
instructions**

measure card

**Use strict
protocols
for outdoor
experiments**

measure card

**Use specific
toxins that only
combat target
organisms**

measure card

**Use strict legal
contracts**

measure card

**Use stricter
rules for
higher risks**

measure card



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**Cards
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**Use
temperature
sensors**

measure card

**Use transport
checklists and
protocols**

measure card

Use video calls

measure card

**Use transparent
face masks**

measure card

**Use
unbreakable
containers and
test tubes**

measure card

**Use video or
speech logs**

measure card



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**Vaccinate
employees**

measure card

**Wear whole-
body hazmat
suits**

measure card

**Work in a
remote place**

measure card

**Watch safety
videos**

measure card

**Work from
low doses to
high doses**

measure card

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measure card



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