DRESDNER LANGE NACHT DER WISSENSCHAFTEN

Quiz 2023

ipf

Exactly one answer is correct in each case. Questions are allowed on site with the scientists!
The draw will be held for those who have answered at least four questions correctly.

1. A laser light beam is directed onto an elastic material with microfolds on its surface. What happens when the material is deformed/stretched?

Station 1
Building W

- ☐ The light is absorbed.
- ☐ The surface starts to glow.
- ☒ The light beam is changed in direction and intensity.

2. What are the novel polymer network-coated wound dressings developed by ResCure based on?

Station 3
Building B

- ☒ As a molecular sponge, they bind signal molecules that promote inflammation.
- ☐ They deliver special, newly developed active ingredients to the wound in defined quantities and according to an adapted time in regime.
- ☐ They promote rapid blood clotting..

4. What is laser radiation not able to do?

Station 11
Building T

- ☐ engrave material
- ☒ teleport material
- ☐ read out information

5. Which substance acts as an electron shuttle in our handmade solar cells?

Station 15
Building P

- ☒ coloring agent (anthocyanin/ chlorophyll)
- ☐ electrolyte
- ☐ carbon

6. What is the thickness of functional polymer brush coatings?

Station 19
Building H

☐ 0,1 – 1nm ☒ 10 – 100nm ☐ 100 – 500nm ☐ 1µm – 1mm

Employees of the IPF are excluded from the raffle!