

Tools for social distancing in the lab

CytoSMART Technologies, Eindhoven, The Netherlands

Social distancing devices

- **BeePLY**: small device on keychain using radio frequency (RF) signals that gives a light and/or sound signal when wearers are within 1.5 m distance from each other. (<https://www.beePLY.nl/?lang=en>)
- **Bump**: small device on a necklace that warns the user when another user is too close. This device also works with RF signals and can also give warnings when you need to sanitize your hands. (www.tharsus.co.uk/about/bump)
- **BuzzyBro**: Wristband with Ultra-wideband technology to warn the user when the distance between other wristbands is too short. (www.buzzybro.com)
- **Maggy**: wearable device that warns you via sound and vibration if another Maggy device or smartphone with Bluetooth enabled is too close. Maggy was one of the winning teams of the EUvsVirus Hackathon (www.maggylife.eu).

Social distancing apps

- **1point5**: Android app (smartphone/smartwatch/tablet) developed by the United Nations Technology Innovations Lab. It gives an alarm when another Bluetooth enabled device is too close. You can adjust the distance yourself. (<https://onepointfive.app/>).
- **SPACER**: Android and iOS app that lets your phone vibrate when someone else with the SPACER app on their phone is less than 2 m away. The app is developed by the Health Innovation via Engineering lab at NUI Galway (<https://spacer.ie/>).

Lab scheduling tools

- **Bookkit**: Online lab booking system. You can assign specific timeslots to teams or implement a maximum amount of people that can enter the lab. The software is free for academic labs (www.bookkit.org/).
- **LabArchives Scheduler**: Online lab booking system. You can set capacity and time limits. The software has free and paid versions (www.labagenda.com).
- **Bookitlab**: Management software for Core Facilities and Shared Service Centers. You can use it to reserve equipment, manage inventory and control lab occupancy. The software can be self-hosted and cloud hosted (<https://bookit-lab.com>).
- **Skedda**: Free online booking and scheduling tool. You can set time-slots and choose booking settings (www.skedda.com).

Online training tools

- **Gibco cell culture basics**: Information from Gibco about basic cell culture techniques consisting of handbooks, video's and a virtual lab (www.thermofisher.com/nl/en/home/references/gibco-cell-culture-basics.html).
- **Fundamental techniques in cell culture**: Handbook by Sigma Aldrich about cell culture techniques (www.sigmaaldrich.com/content/dam/sigma-aldrich/docs/Sigma-Aldrich/General_Information/1/fundamental-techniques-in-cell-culture.pdf).

Remote access software

- **TeamViewer**: Free remote access software for personal use. Companies can purchase a license (www.teamviewer.com).
- **RemotePC**: Platform independent (PC, Mac, Linux) remote access tool (www.remotepc.com).
- **Chrome Remote Desktop**: Free remote access software via Google Chrome (<https://remotedesktop.google.com>).
- **Microsoft Remote Desktop**: Free remote access software for access to windows computers (<https://aka.ms/rdapps>)

Remote monitoring and live-cell imaging

- **Lux2**: Mini, in-incubator, live-cell imager to monitor one sample (www.cytosmart.com/products/lux2).
- **Lux2 Duo Kit**: In-incubator live-cell imager to monitor two samples (www.cytosmart.com/products/cytosmart-lux2-duo-kit).
- **Omni**: Automated, in-incubator, live-cell imager to image entire culture vessels (www.cytosmart.com/products/omni).

