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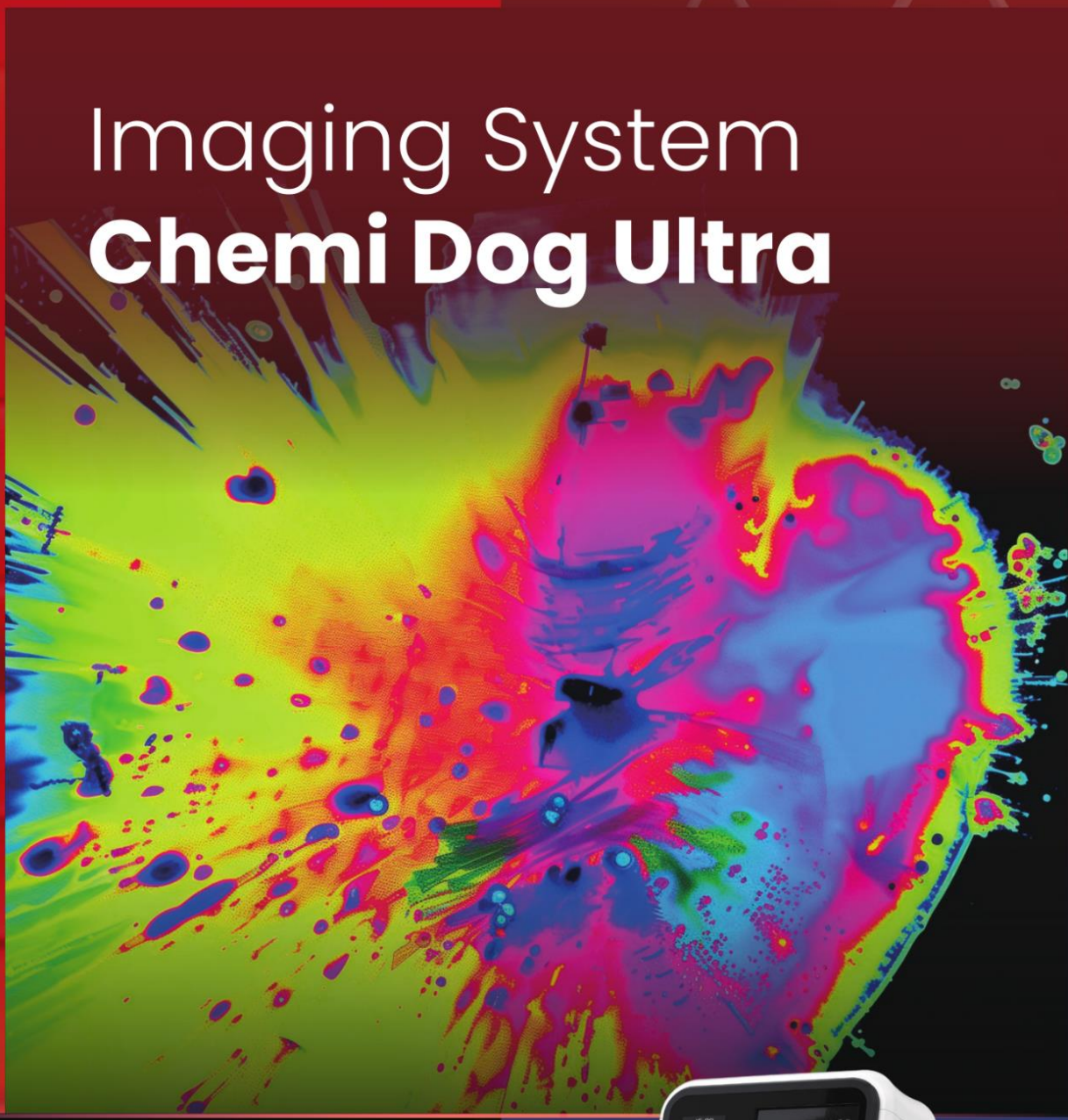
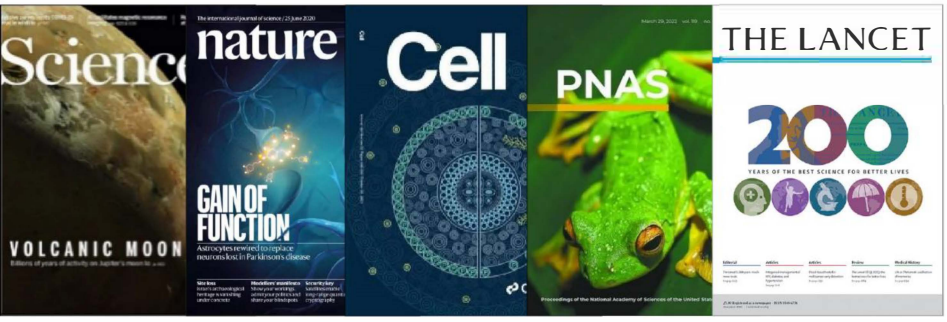
Imaging System
Chemi Dog Ultra



LITERATURE



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A phosphate starvation response-centered network regulates mycorrhizal symbiosis

Jincai Shi • Boyu Zhao • Shuang Zheng • ... Fan Chen • Nan Yu • Ertao Wang • Show all authors • Show footnotes

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Article | Published: 11 November 2020

Feeding induces cholesterol biosynthesis via the mTORC1–USP20–HMGCR axis

Xiao-Yi Lu, Xiong-Jie Shi, Ao Hu, Jia-Qiong Wang, Yi Ding, Wei Jiang, Ming Sun, Xiaolu Zhao, Jie Luo, Wei Qi & Bao-Liang Song

Nature 588, 479–484 (2020) | Cite this article

centrifugation at 4000 rpm, the supernatant was discarded and the pellet was resuspended in infiltration buffer (10 mM MES (PH 5.6), 10 mM $MgCl_2$, 150 μM acetosyringone) at OD = 1.2. Subsequently, the *Agrobacterium* resuspensions were mixed in different combinations and adjusted to a final optical density of 0.3 for each *Agrobacterium* resuspension in the infiltration buffer. About 200-300 μL of infiltration mixtures was infiltrated into a circle area with 1.5 cm (Figure 4A) or 2.0 cm (Figure 2E) diameter of the abaxial side of expanded young *N. benthamina* leaves. After 36h infiltrated, the *N. benthamina* leaves were sprayed with luciferin and the luciferase signals were captured using a Tanon 5200 Image Analyzer. Luciferase intensity was quantified using ImageJ. The corresponding primers used for plasmid construction are in Table S2.

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Science

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HOME > SCIENCE > VOL. 368, NO. 6492 > STRUCTURAL BASIS FOR INHIBITION OF THE RNA-DEPENDENT RNA POLYMERASE FROM SARS-COV-2 BY REMDESIVIR

al basis for inhibition of the RNA-dependent ymerase from SARS-CoV-2 by remdesivir

+12 authors Authors Info & Affiliations

Vol 368, Issue 6492 • pp. 1499-1504 • DOI: 10.1126/science.abc1560

nsp8(1-198)

Interface (L251-R365)

Fingers (S397-A581, K621-G679)

Palm (T582-P620, T680-Q815)

Thumb (H816-E920)

direction of primer elongation

RdRp complex (1 μM)

Elongated RNA

Primer RNA

RNA only

nench buffer (94% formamide, 30 mM EDTA, prepare with DEPC-treated water) stop the reaction. A sample of 18 μl of reaction was mixed with 2 μl of 10x DNA r. Half of the sample (10 μl) was loaded onto a 10% Urea-PAGE denatured gel, or 1h, and imaged with a Tanon-5200 Multi Fluorescence Imager.

DOI: 10.1126/science.abc1560(2020)

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Article | Published: 15 December 2021

NLRs guard metabolism to coordinate pattern- and effector-triggered immunity

Keran Zhai, Di Liang, Helin Li, Fangyuan Jiao, Bingxiao Yan, Jing Liu, Ziyao Lei, Li Huang, Xiangyu Gong, Xin Wang, Jiashun Miao, Yichuan Wang, Ji-Yun Liu, Lin Zhang, Ertao Wang, Yiwen Deng, Chi-Kuang Wen, Hongwei Guo, Bin Han & Zuhua He

Nature 601, 245–251 (2022) | Cite this article

and incubated for 2–3 h at 30 °C before infiltration. The suspensions were then infiltrated into 5-week-old *N. benthamiana* leaves in different combinations. After two days of growth, luciferase substrate (Promega) was sprayed onto the surface of the leaves and the luciferase signals were imaged using a Tanon-5200 imaging system (Tanon). For luciferase activity measurement, leaves were taken

DOI: 10.1038/s41586-021-04219-2

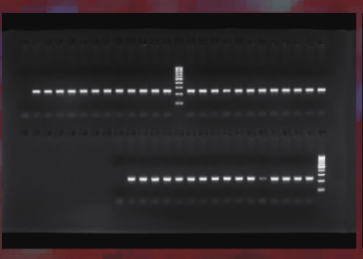
/ PNAS / THE LANCET

Imaging System
Chemi Dog Ultra

The **Chemi Dog Ultra** Imaging System integrates internationally, advanced research-grade ultra-high-sensitivity refrigeration cameras, high-power LED excitation light sources, and automated exposure and focusing control technology.

The product has been optimized in traditional aspects such as lifting sample tables, light source control, and chassis casing, providing researchers with a simple, convenient, intelligent, and more scientific shooting mode and outstanding experimental image effects.

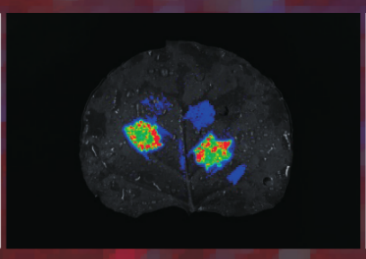
DNA gel



Fluor gel

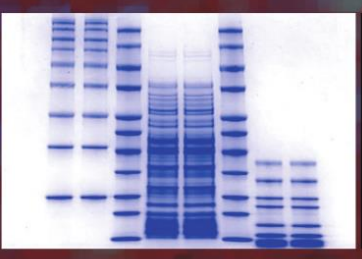
Western blot

protein interaction

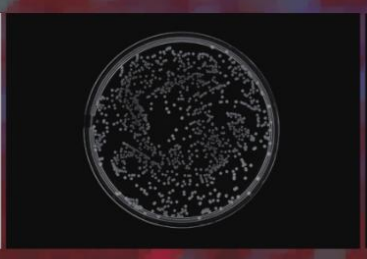


Chemiluminescence /
Bioluminescence /
Fluorescence /
Agarose Gel /
Protein Gel /

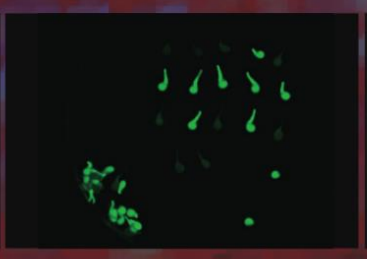
Coomassie stain



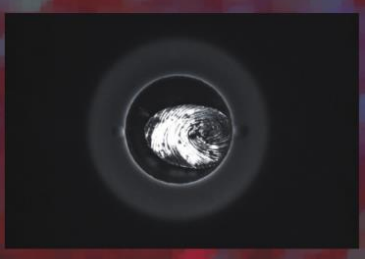
Colony imaging



Molecular breeding



Electrochemistry



TECHNICAL SPECIFICATIONS

Product Model	Chemi Dog Ultra
Applications	Chemiluminescence/Fluorescence/Protein gel/Agarose Gels image, etc.
Camera system	Innovative ultra clear scientific research level optical systems
Imaging Pixels	6.0 MP
Bit depth	65,536
Dynamic Range	>3.6 orders of magnitude
LED excitation source	Trans-white Trans-UV Trans-blue Epi-white Epi-red Epi-green Epi-blue (Optional NIR)
Filter wheel	9 wells filter wheel
Transilluminator drawer	Automatic control sample platform
Image area	Maximum image area: 21 × 26 cm
Sample trays	Auto identification WhiteTray/UV Tray/Bule Tray/Fluor Tray
Excise the bands	Auto-Safe identification UV/Blue shield
Touch screen functionality	Dual-screen interconnection, equipped with ultra-thin body: Multi-touch capable 12.1 " display, 4.6" display small screen
Instrument size (L × W × H)	60 cm × 50 cm × 70 cm

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