

Supplementary Table 1. Chemical screenings in plant biology. The table lists reported chemical screenings in plant biology. N.d.: not defined, References marked with an asterisk report quantitative screenings

Targeted process	System	Plate size	Library size	Library source	Final conc.	Readout	Reference*
Chemical library construction	Arabidopsis seedlings / zebrafish	96	≤1412	Synthesis of biaryl-containing compounds	10 µM	Microscopic observation of development	(Spring et al., 2002)
Unknown protein function	Recombinant protein of Arabidopsis	96	103,773	SPECS compound database	50 µM	Protein binding (SPR)	(Yoshitani et al., 2005)*
Auxin signaling	Arabidopsis seedlings	24	-	Culture extract from <i>Streptomyces diaستatochromogenes</i> B59	0.1, 1, 5, 10 µM	BA3 GUS-reporter system	(Hayashi et al., 2001)
	Arabidopsis seedlings	96	10,000	ChemBridge DIVERSet	20 µM	BA3 GUS-reporter system	(Armstrong et al., 2004)
	Maize coleoptiles	96	10,000	Maybridge HitFinder	100/200 µM	Coleoptile gravitropism / IAA measurement	(Nishimura et al., 2012; Nishimura et al., 2014)*
Brassinosteroid signaling	<i>Lepidium sativum</i> <td>1</td> <td>10</td> <td>Synthesized triazoles</td> <td>1 µM</td> <td>Hypocotyl length</td> <td>(Min et al., 1999)</td>	1	10	Synthesized triazoles	1 µM	Hypocotyl length	(Min et al., 1999)
	Arabidopsis seedlings	96	10,000	ChemBridge DIVERSet	20-40 µM	Hypocotyl length and CPDp::GUS reporter gene expression	(Gendron et al., 2008)
	Arabidopsis seedlings	96	10,000	ChemBridge DIVERSet	50 µM	Hypocotyl length, petiole length and bending, leaf shape and color	(De Rybel et al., 2009)
Ethylene signaling	Arabidopsis (<i>eto1-4</i>) seedlings	96	10,000	ChemBridge DIVERSet	50 µM	Hypocotyl length	(Lin et al., 2010)
	Arabidopsis (<i>eto1-2, ctr1-1</i>) seedlings	96	2,000	Microsource Spectrum	50-100 µM	Hypocotyl and root length	(He et al., 2011)
	Arabidopsis seedlings	96	12,000	ChemBridge DIVERSet	50 µM	Ethylene triple response and EBSp::GUS reporter gene expression	(Hu et al., 2014)
ABA/GA signaling	Arabidopsis ML1-FUS3 (<i>wg3-11</i>) seedlings	24	10,000	ChemBridge DIVERSet	12.5 µM Mix of 8 chemicals	Inhibition of cotyledon expansion and greening after germination	(Tsuchiya et al., 2010)
	Arabidopsis seedlings	96	9,600	ChemBridge DIVERSet	20-40	RAB18p::GFP reporter gene expression	(Kim et al., 2011)
Jasmonate signaling	Arabidopsis seedlings	96	1,728	Analyticon Discovery	25 µM	LOX2p::LUC reporter gene expression	(Meesters et al., 2014)*
Light & hormone response	Arabidopsis <i>def2-1</i> seedlings	96	10,000	ChemBridge DIVERSet	20-40 µM	Hypocotyl elongation	(Savaldi-Goldstein et al., 2008)
Circadian clock	Arabidopsis seedlings	96	720	Microsource NatProd	50 µM	GIp::LUC reporter gene expression	(Toth et al., 2012)*

Targeted process	System	Plate size	Library size	Library source	Final conc.	Readout	Reference*
Plant immunity	Arabidopsis seedlings	96	120	SYNGENTA bioactive compounds	10 ppm	ATL2p::GUS reporter gene expression	(Serrano et al., 2007)
	Arabidopsis seedlings	96	<200	LATCA	25 µM	Leaf bleaching	(Schreiber et al., 2008)
	Arabidopsis seedlings	96	42,000	Microsource Spectrum, Sigma TimTec Myia, ChemBridge NovaCore, ChemBridge DIVERSet	4-20 µM	CaBP22p::GUS reporter gene expression	(Knoth et al., 2009)
	Arabidopsis seedlings	96	6,800	Analyticon Discovery	10 µM	DEXp::evrRpm1-HA, EDp::avrRpm1 RPM1-MYC-induced effector triggered cell death	(Serrano et al., 2010)
	Arabidopsis seedlings	96	80	TimTec NP280	25 µM	Lesion-like spot development	(Schreiber et al., 2011)
	Arabidopsis cell culture	96	1,920	Microsource Spectrum	50 µM	Immune-related cell death	(Noutoshi et al., 2012a)*
	Arabidopsis cell culture	96	10,000	ChemBridge DIVERSet NovaCore NQ612	25 µg/mL	Immune-related cell death	(Noutoshi et al., 2012b)*
	Arabidopsis seedlings	96	6,800	Analyticon Discovery	10 µM	Anthocyanin accumulation	(Serrano et al., 2012)
Seed germination	Arabidopsis seeds	96	3,280	Sigma LOPAC, Microsource Spectrum	25 µM	Inhibition of germination	(Bassel et al., 2008; Park et al., 2009)
Accession specific hypocotyl elongation	Arabidopsis seedlings (various accessions)	96	13,280	ChemBridge DIVERSet, Sigma LOPAC, Microsource Spectrum	25 µM	Etiolated hypocotyl length	(Zhao et al., 2007)
Shoot regeneration	Arabidopsis seedlings	96	10,000	ChemBridge	10 µM	GAL4-GFP enhancer trap	(Motte et al., 2013)
Root development	Arabidopsis seedlings (pCYCB1;1::GUS)	96	10,000	ChemBridge DIVERSet	50 µM	Changes in <i>CYCB1;1</i> expression pattern in root tissue	(De Rybel et al., 2012)
	Arabidopsis seedlings	96	1,656	LATCA library + 80 selected compounds	8.3 µM	GFP enhancer trap line J2301 reporter gene expression and root growth	(Forde et al., 2013)
Growth and development	Arabidopsis seedlings	24	6,500	Korea Chemical Bank	2 µM	Plant morphology, growth rate, leaf color, flowering time and senescence	(Kim et al., 2010)
Gravitropism	Arabidopsis seedlings	24	10,000	ChemBridge DIVERSet	50-100 µM	Gravistimulated bending	(Surpin et al., 2005)
	Arabidopsis seedlings	24	10,000	ChemBridge DIVERSet	50-100 µM	Root length	(Christian et al., 2008)
Endomembrane trafficking	<i>Saccharomyces cerevisiae</i>	96	4,800	ChemBridge DIVERSet	10 µg/mL	Dot blot, anti-CPY antibody	(Zouhar et al., 2004)
	Tobacco pollen tube	96	2,016	Microsource Spectrum	50-100 µM	Pollen germination, pollen tube morphology	(Robert et al., 2008)
	Arabidopsis pollen tube	96	46,418	ChemBridge DIVERSet, ChemBridge NovaCore, Sigma TimTec Myria, LATCA library, CLICKables library	50-100 µM	Germination and growth of pollen tube	(Drakakaki et al., 2011)
	Arabidopsis seedlings (GFP-CESA3)	24	360	Selected chemicals from (Drakakaki et al., 2011)	15 µM	GFP-CESA3 localization	(Worden et al., 2015)

Targeted process	System	Plate size	Library size	Library source	Final conc.	Readout	Reference*
Peroxisome protein import	Arabidopsis (35Sp::GFP-MFP2) seedlings	24	70	ChemBridge DIVERSet Selected from (Surpin et al., 2005)	25 µM	35Sp::GFP-MFP2 reporter gene expression and peroxisome morphology and distribution	(Brown et al., 2011)
Cell morphology	Arabidopsis seedlings	96	20,000	ChemBridge DIVERSet	20-50 µM	Root or hypocotyl swelling	(DeBolt et al., 2007)
Cell expansion and cell morphogenesis	Tobacco BY-2 cell culture	96	4,080	Microsource Spectrum, LATCA library	25 µM	GFP-reporter gene expression and visualization of microtubules	(Yoneda et al., 2007)
Cell wall biosynthesis	<i>Pisum sativum</i> Golgi membranes	96	4,800	ChemBridge	N.d.	Radioactivity from radiolabeled-UDP-glucose	(Zabotina et al., 2008)*
Xylem differentiation	Arabidopsis (<i>acl5-1</i>) seedlings	24	1,680	Microsource Spectrum	10 µM	Microscopic xylem vessel differentiation	(Yoshimoto et al., 2012)

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