

Enabling technologies

Representation formats

Influential meetings

1999

April 1999

NATO workshop, proposing to create a language to encode metabolic models

April 2000

Start of SBML at the 1st “ERATO Kitano” workshop,

August 2002

Start of BioPAX project at the 4th Biopathway consortium meeting

July 2003

1st SBML hackathon

October 2005

Start of SBGN project at the BioPAX face 2 face meeting

2006

Decision to create a language for synth biol designs

January 2008

Okinawa superhackathon
SBGN, BioPAX, SBO, MIRIAM

April 2008

1st SBOL meeting

April 2009

Waiheke combined meeting
CellML, SBGN, BioPAX, SBO, MIASE

2010

Creation of COMBINE

October 2010

1st COMBINE forum

April 2011

1st HARMONY hackathon

March 2001

SBML Level 1

August 2001

CellML 1.0, NeuroML

June 2003

SBML Level 2

July 2004

BioPAX Level 1

December 2005

BioPAX Level 2

August 2008

SBGN PD L1

September 2009

SBGN ER L1, SBGN AF L1

March 2010

SED-ML Level 1

July 2010

BioPAX Level 3

October 2010

SBML Level 3

October 2011

SBOL v1

March 2013

SBOLvisual v1

July 2015

SBOL v2

2003

libSBML

2005

MIRIAM, SBO, BioModels qualifiers

2006

PaxTools

2007

MIASE, KiSAO

2011

Identifiers.org

September 2014

COMBINE Archive