

# Build and Modify Process Diagram

Talk to a Teacher

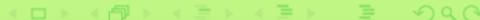
<http://spoken-tutorial.org>

National Mission on Education through ICT

<http://sakshat.ac.in>

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IIT Bombay

19 June 2015



# Learning Objectives



# Learning Objectives

**We will learn to :**



# Learning Objectives

**We will learn to :**

- **Use Macros**



# Learning Objectives

We will learn to :

- Use Macros
- **Move Components on the draw area**



# Learning Objectives

We will learn to :

- Use Macros
- Move Components on the draw area
- **Connect a reaction line around a species**



# Learning Objectives



# Learning Objectives

**We will also learn to :**



# Learning Objectives

We will also learn to :

- **Align and extend a reaction line**



# Learning Objectives

We will also learn to :

- Align and extend a reaction line
- **Add a Product and a Reactant**



# System Requirement



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- **Ubuntu Linux OS 14.04**



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- **CellDesigner version 4.3**

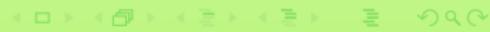


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- **Ubuntu Linux OS 14.04**
- **CellDesigner version 4.3**
- **Java 1.7**



# Pre -requisites



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**Learners should be familiar with:**



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Learners should be familiar with:

- **Undergraduate Biochemistry**



# Pre -requisites

Learners should be familiar with:

- Undergraduate Biochemistry
- **CellDesigner interface**



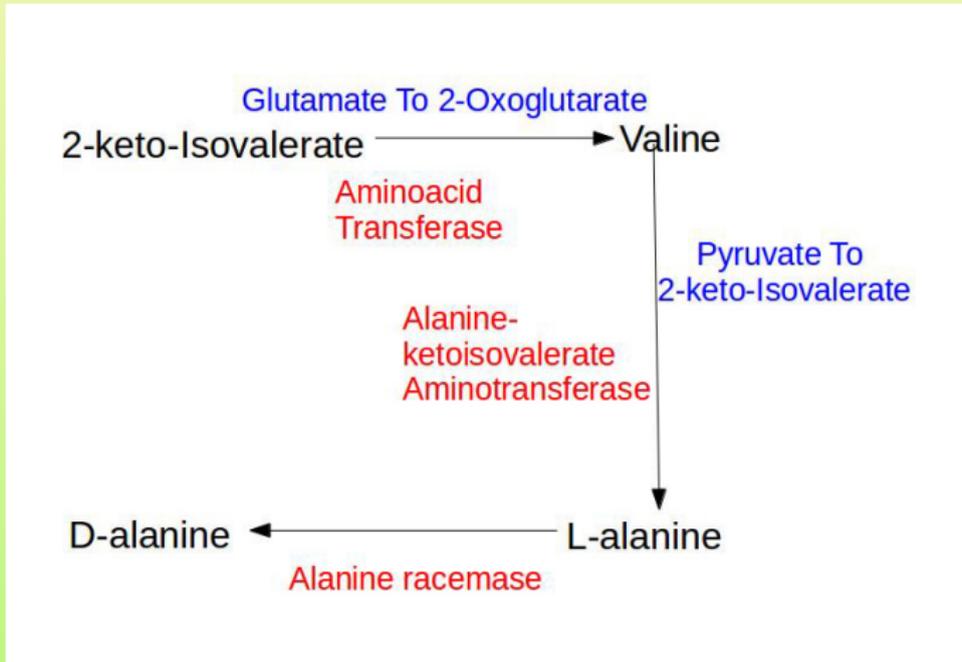
# Pre -requisites

Learners should be familiar with:

- Undergraduate Biochemistry
- CellDesigner interface
- If not, for relevant CellDesigner tutorials, please visit <http://spoken-tutorial.org>



# Conventional diagram for Alanine biosynthesis



# Summary



# Summary

**We have learnt to:**



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# Summary



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**We have also learnt to:**



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We have also learnt to:

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- **Add a Product and a Reactant**



# Assignment

## Build a Process Diagram for Methionine Biosynthesis using tools in CellDesigner

- 1 Explore the Macros for GTP/GD
- 2 Find out how to create a 'Curve' reaction line

**Hint:** Go to 'Color and shape', under the frame 'Type', select 'Curve Line'



# About the Spoken Tutorial Project

- Watch the video available at [http://spoken-tutorial.org/What\\_is\\_a\\_Spoken\\_Tutorial](http://spoken-tutorial.org/What_is_a_Spoken_Tutorial)
- It summarises the Spoken Tutorial project
- If you do not have good bandwidth, you can download and watch it



# Spoken Tutorial Workshops

## The Spoken Tutorial Project Team:

- Conducts workshops using spoken tutorials
- Gives certificates to those who pass an online test
- For more details, please write to [contact@spoken-tutorial.org](mailto:contact@spoken-tutorial.org)



# Acknowledgements

- Spoken Tutorial Project is a part of the Talk to a Teacher project
- It is supported by the National Mission on Education through ICT, MHRD, Government of India
- More information on this Mission is available at <http://spoken-tutorial.org/NMEICT-Intro>

