/ hw3 (/github/gutiloluis/syntheticBiology20151/tree/master/hw3)

# 3. Distribuciones de probabilidad

A continuación se grafican algunas distribuciones de probabilidad para distintos valores de sus respectivos parámetros.

## In [1]:

```
%pylab inline
from scipy.stats import *
```

Populating the interactive namespace from numpy and matplotlib

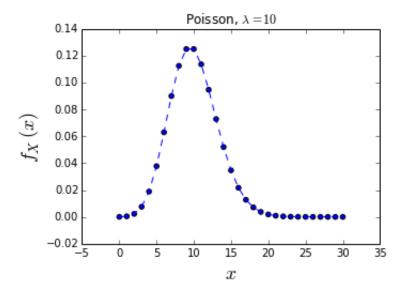
#### a. Poisson

### In [2]:

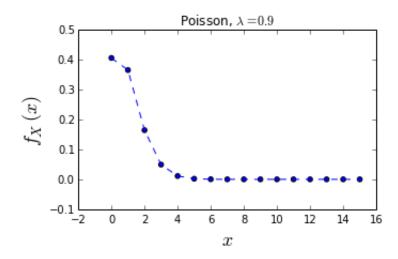
```
x = np.linspace(0, 30, 31)
figure(figsize=(5, 3.6))
scatter(x,poisson.pmf(x, 10))
ylabel("$f_X(x)$", fontsize = "18")
xlabel("$x$", fontsize = "18")
title("Poisson, $\lambda = 10$")
plot(x,poisson.pmf(x,10),"--")
```

#### Out[2]:

[<matplotlib.lines.Line2D at 0x7f6771f57f10>]

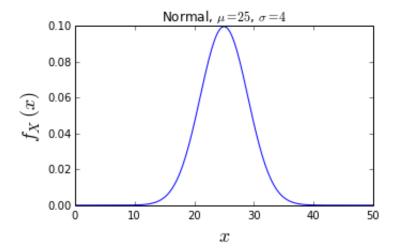


Out[3]: [<matplotlib.lines.Line2D at 0x7f6771d3ab50>]



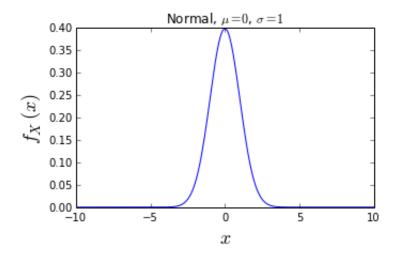
#### b. Normal

Out[4]: <matplotlib.text.Text at 0x7f6771d8aad0>



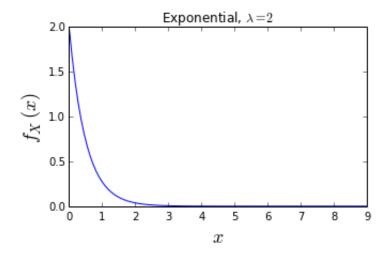
## 

Out[5]: <matplotlib.text.Text at 0x7f6771b4d310>



#### c. Exponential

Out[6]: <matplotlib.text.Text at 0x7f6771defa90>



Out[7]: <matplotlib.text.Text at 0x7f67717e9490>

