

## PHD PROGRAMME IN:

### SYSTEMS BIOLOGY IN IMMUNE AND INFECTIOUS DISEASES

<b>Course title:</b>	<b>Knowledge Based Economy</b>
<b>Aim of the course:</b>	<p>The course aims to provide students with basic knowledge about the origins and historical developments of the technological and scientific revolution that has represented the greatest modern factor of economic and social growth and that has produced what is termed the "knowledge economy".</p> <p>In the positive sense, we study the production of economic value through knowledge, considering the cognitive structures and the virtual, logistic and relational integrators that implement the networks of knowledge production and propagation in the contemporary economy. Part of the course will focus on the role of Knowledge Workers (human capital) in modern growth and development dynamics.</p>
<b>Lecturer:</b>	Dr. Roberto Raimondi
<b>Venue and date</b>	to be defined
<b>Course Program:</b>	<p>The origins and historical developments of the technological and scientific revolution that represented the greatest modern factor of economic and social growth and which produced what is called the "knowledge economy" are reconstructed. In the positive sense, we study the production of economic value through knowledge, considering the cognitive structures and the virtual, logistic and relational integrators that implement the networks of knowledge production and propagation in the contemporary economy. Part of the course will focus on the role of human capital in modern growth and development dynamics.</p> <p>The course is divided into two parts. In the first, starting from the framework of the discipline, we study its historical evolution in the normative and thinking aspects, as well as in empirical and actual experiments. In the second, the theoretical models of production activities are combined with the codification of knowledge both public and private.</p> <p>The delivery of the contents follows approximately the following articulation:</p> <ul style="list-style-type: none"><li>- The origins and historical developments of the knowledge economy</li><li>- The development of knowledge-based economies</li><li>- Production and codification of knowledge</li><li>- Externalities related to knowledge</li><li>- Private knowledge and public knowledge</li></ul>

<b>Target audience:</b>	The course is mainly meant for PhD students in Systems Biology in Immune and Infectious Pathologies PhD programme. However, the course is open to all scientists with an interest in the issue.