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Joaklim Dillner Professor Department of Laboratory Medicine <u>Karolinska Institutet</u> Sweden



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# Biography

- Joakim Dillner is professor in infectious disease epidemiology at Karolinskalnstitutet. His research is focused on cancer screening and tumor virology, especially human papillomavirus (HPV).
- He supervises several very large trials of HPV screening and Nordic follow-up studies of HPV vaccination and has experience in running international networking efforts for large-scale molecular epidemiological studies for evaluation of the role of infections in cancer.
  - He is well-known as PI of Swedescreen, the first started randomised trial of HPV-screening (since 1997) and as PI of the WHO HPV LabNet Global Reference Laboratory (since 2006). Since 2012 he has also taken over the International Papillomavirus Reference Center. Professor Dillner has published more than 300 original research papers.



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#### **Research Interest**

 Professor Joakim Dillner began research in tumor virology in 1982, working with George Klein on Epstein-Barr virus. Since 1989 he has been conducting Human Papillomavirus (HPV) research in the areas of molecular biology, immunology and vaccinology, clinical virology and epidemiology.



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# Molecular Biology

Joaklim Dillner Professor Karolinska Institutet Sweden



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### Introduction

- Molecular biology is the branch of biology that deals with the molecular basis of biological activity. This field overlaps with other areas of biology and chemistry, particularly genetics and biochemistry.
- Molecular biology chiefly concerns itself with understanding the interactions between the various systems of a cell, including the interactions between the different types of DNA, RNA and protein biosynthesis as well as learning how these interactions are regulated.

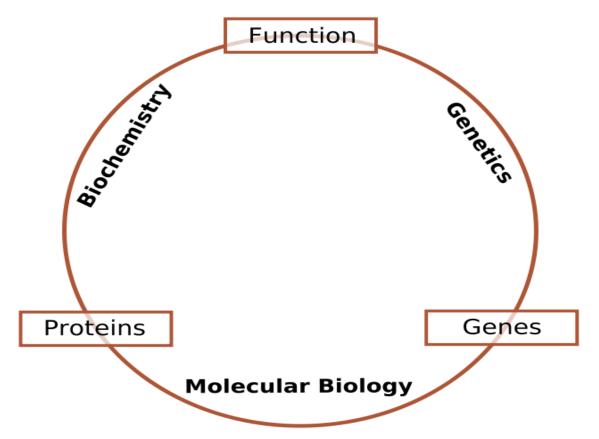


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### **Relationship to other biological sciences**



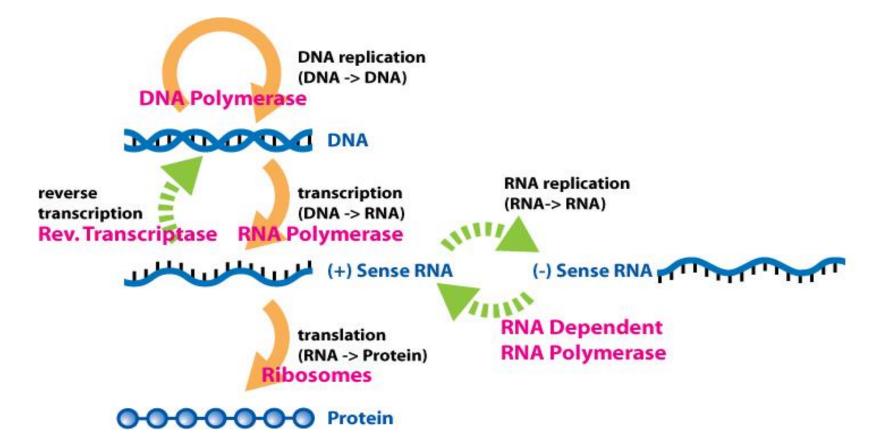


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#### Interaction b/w DNA, RNA & Protein





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# **Techniques of molecular biology**

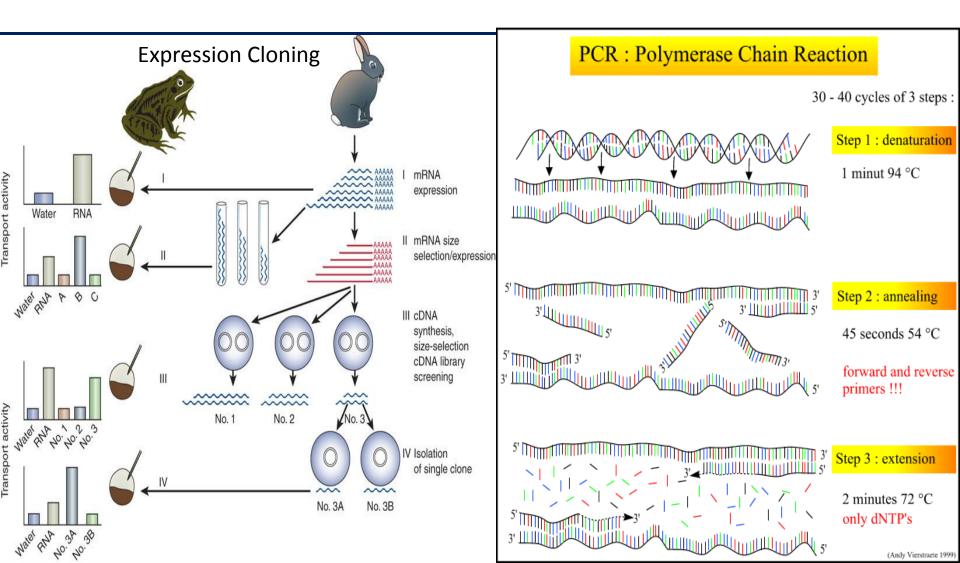
- Expression cloning
- Polymerase chain reaction
- Gel electrophoresis
- Macromolecule blotting and probing
- Southern blotting
- Northern blotting
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- Eastern blotting
- DNA microarray
- Allele-specific oligonucleotide
- Antiquated technologies



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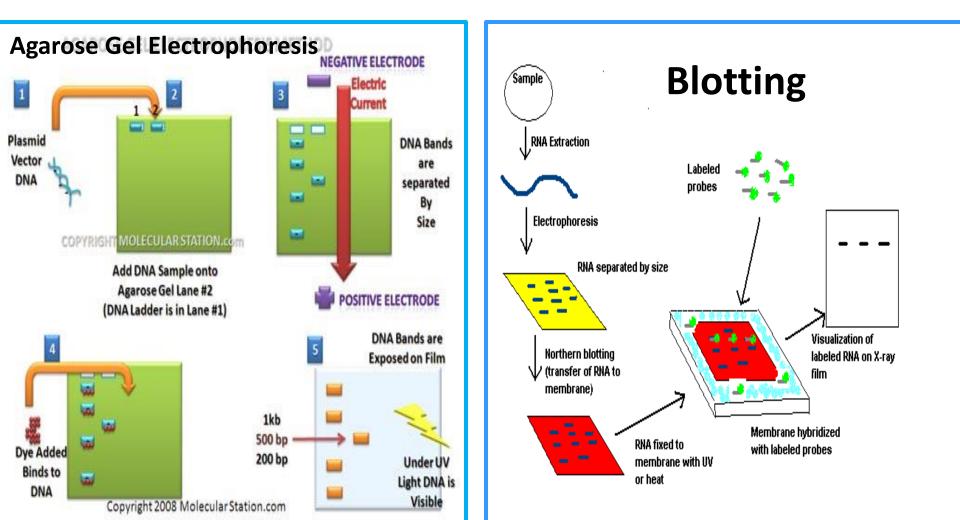




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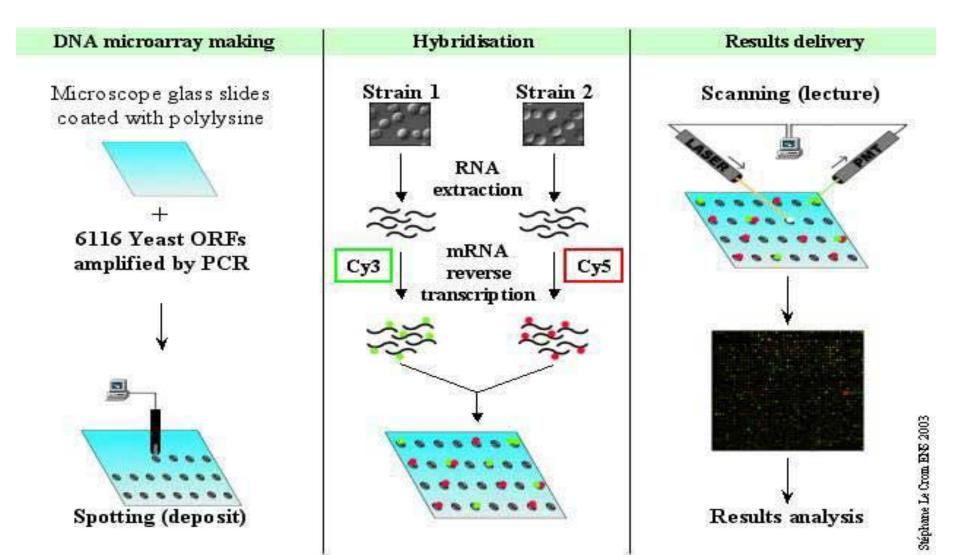




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### **Clinical Significance**

- Clinical research and medical therapies arising from molecular biology are partly covered under gene therapy.
- The use of molecular biology or molecular cell biology approaches in medicine is now called molecular medicine.
- Molecular biology also plays important role in understanding formations, actions, regulations of various parts of cells which can be used efficiently for targeting new drugs, diagnosis of disease, physiology of the Cell.

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