

Institute of Biology

PhD positions

Type of positions	CSC scholarship, KNAW-CEP project
Application deadline	31 December 2016
Language requirement	Good command of English (TOEFL >= 65, IELTS >= 6)

Group leader	Theoretical & practical training	Topics offered
Dr. Remko Offringa r.offringa@biology.leidenuniv.nl	Genetics and Molecular and Cell Biology, (Plant Science and Bioinformatics).	Plant Development: 1) How environmental signals change plant development by altering the polarity of auxin transport. 2) Role of auxin in plant developmental transitions, such as initiation of embryogenesis and fruit set. 3) Tissue rejuvenation and its role in plant growth habit selection and plant ageing.
Dr. Sylvia de Pater b.s.de.pater@biology.leidenuniv.nl	Genetics and Molecular Cell Biology, (Plant Science).	1) Plant genome editing using CRISPR/Cas and gene-targeting. 2) DNA repair via non-homologous end-joining and homologous recombination pathways. 3) T-DNA integration mechanisms.
Dr. Bert J. van der Zaal b.j.v.d.zaal@biology.leidenuniv.nl	Bacterial and/or Plant Molecular Genetics	1) The Type 4 Secretion System found in Agrobacterium tumefaciens is widely used for plant transformation. Can we further improve gene and protein transfer to other eukaryotic cells by learning from the T4SS found in plasmid RP4? 2) Modulating meiotic chromosome segregation in plants by expressing artificial transcription factors and site-specific nucleases.
Prof. Annemarie Meijer a.h.meijer@biology.leidenuniv.nl	Molecular and Cellular Biology and Immunology	Infection and inflammation research using zebrafish models: 1) Host defense against intracellular pathogens (mycobacteria, salmonella, aspergillus); 2) Control of inflammation by the autophagy machinery and anti-inflammatory mediators; 3) Interaction between the immune system, stress and behaviour.
Dr. Ewa Snaar-Jagalska b.e.snaar-jagalska@biology.leidenuniv.nl	Molecular and Cellular Biology of cancer	Cellular tumor biology and therapy development in zebrafish: 1) the application of human cancer xenografts models in zebrafish for nano-drug delivery (collaboration with Prof. Kros); 2) development of near-patient's prostate and breast cancer models for the personalized drug response.
Prof. Dr. Carel J. ten Cate c.j.ten.cate@biology.leidenuniv.nl	Zoology. Interest in animal behaviour and cognition.	The biological origins of musicality: all humans can perceive musical melody and rhythm. This sets humans apart from animals. But how do human and animal music perception and underlying cognition differ? What was the origin of human musicality? This project examines melody and rhythm perception in birds.



**Universiteit
Leiden**
The Netherlands

Institute of Biology

PhD positions

Type of positions	CSC scholarship, KNAW-CEP project
Application deadline	31 December 2016
Language requirement	Good command of English (TOEFL >= 65, IELTS >= 6)

Group leader	Theoretical & practical training	Topics offered
Dr. Anna-Pavlina Haramis a.haramis@biology.leidenuniv.nl	Genetics, Molecular and Cellular Biology.	Regulation of metabolism in development and disease using zebrafish models. 1) Regulation of starvation-induced autophagy at the organismal level. 2) Interplay between systemic metabolism and function of the immune system. 3) Chemical/genetic synthetic lethality screen for anticancer compounds based on altered metabolic characteristics of cancer cells.
Prof. Dr. Herman P. Spaink h.p.spaink@biology.leidenuniv.nl	Genetics, Molecular and Cellular Biology.	Regulation of metabolism in development and disease using zebrafish models. 1) Regulation of metabolic wasting at the organismal level. 2) Interplay between systemic metabolism and function of the innate immune system linked to the response to the microbiome 3) The relation between type II diabetes and the innate immune system.
Dr. Dennis Claessen D.Claessen@biology.leidenuniv.nl	Genetics, Molecular Biology and Microbiology.	Regulation of bacterial morphogenesis. Possible topics relate to morphogenetic proteins and cell surface-associated glycans, aimed at improving growth of the antibiotic-producing actinomycetes.



**Universiteit
Leiden**
The Netherlands