Technician, **Post Doctoral**, **Ph.D.** and **Masters' Student** positions are currently available in Ghent, Belgium at the Flanders Interuniversity Institute of Biotechnology (**VIB**)/**Ghent University**- Department for Molecular Biomedical Research (**DMBR**).

Using mouse models and Embryonic Stem (ES) cell based technologies we plan on identifying novel genes involved in cardiovascular development and disease progression. Through the use of the cre-loxP system and currently existing conditional mouse lines we will further investigate the roles of VEGF-A/Flk1 in neuronal and cartilage development and disease states. Research projects will be centered on the functional characterization of novel cardiovascular modulators through expression analyses, loss and gain of function studies.

Successful applicants would join the newly established **Cardiovascular Biology Unit** at the **DMBR** after May 1st, 2004. For more information on the **DMBR** see **http://www.dmbr.UGent.be**

International applicants are strongly encouraged to apply and competitive European scale salaries will be offered that are commensurate with the applicants experience. Ph.D. thesis dissertations take between 4-5 years and can be completed in English. International tuition fees are minimal and will be covered by the host institution.

Selected Publications:

Activated Fps/Fes partially rescues the in vivo developmental potential of Flk1 deficient vascular progenitor cells. **Jody J. Haigh**, Masatsugu Ema, Katharina Haigh, Peter Greer, Janet Rossant, Erwin F. Wagner, Andras Nagy *Blood* 2004 Feb; 103 (3)

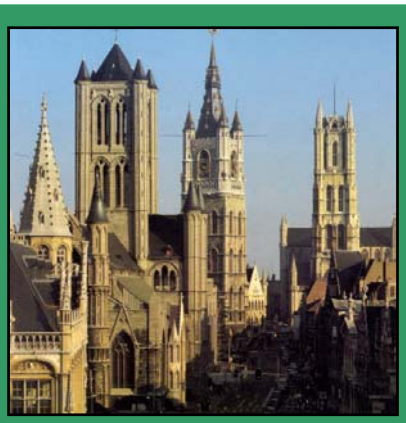
Cortical and retinal defects caused by dosage dependent reductions in VEGF-A paracrine signaling. **Jody J. Haigh**, Paula Morelli, Holger Gerhardt, Katharina Haigh, John Tsien, Annette Damert, Lucile Miquerol, Ulrich Muhlner, Rudiger Klein, Napoleone Ferrara, Erwin F. Wagner, Christer Betsholtz, Andras Nagy *Devel. Biol.*, 2003 Oct; 262(2) p.225-241.

Conditional inactivation of VEGF-A in areas of collagen2a1 expression results in embryonic lethality in the heterozygous state. **Jody J. Haigh**, Hans-Peter Gerber, Napoleone Ferrara, Erwin F. Wagner. *Development*, 2000 Apr;127(7): 1445-53.

Interested applicants should send their Curriculum Vitae, summary of past and present research achievements, and the names and contact information of 3 references to:

Dr. Jody Jonathan Haigh :
Haigh@mshri.on.ca - Fax: 1-416-586-8588

VIB, the Flanders Interuniversity Institute for Biotechnology, is an entrepreneurial and technical staff conduct basic research life sciences. The annual research budget is about 50 million euro. During the past years VIB has created an environment that stimulates talent to excel. The major ingredients of such an environment are long-term and stable financing, state of the art infrastructure and access to advanced central core technologies (microarrays, proteomics). VIB pursues an active patent and licensing policy with the objective to translate research results into products for the industry and the public at large. For a copy of the latest annual report, mail to vib@vib.be.
Website: www.vib.be



Ghent is both a historical town with an important architectural patrimony, and a lively modern city with a choice of social and cultural events. Ghent is centrally located in Western Europe, close to many European cities and universities. The cost of living in Ghent is low as compared to nearby major cities.
Website: www.gent.be

Ghent University founded in 1817, is a relatively young university. Today, after more than ten years of uninterrupted growth, Ghent University attracts over 24,000 students, including an important foreign student population of over 500 EU citizens and some 450 from non-EU countries. Ghent University offers a broad range of study programmes in all academic and scientific branches. Numerous research groups, centres and institutes have been founded over the years. Several of them enjoy world fame in various scientific disciplines such as biotechnology, aquaculture, and microelectronics. In a recent 'Best Places for Postdocs' survey of *The Scientist*, Ghent University was within the top 10 of non-US institutions.
Website: www.UGent.be

A **Postdoctoral Ph.D.** position, funded for three years by the EU-FP6, is currently available in Ghent, Belgium, at the Flanders Interuniversity Institute of Biotechnology (**VIB**)/**Ghent University** - Department for Molecular Biomedical Research (**DMBR**).

Research will focus on molecular mechanisms underlying breast cancer metastasis. The project will use modern biochemical and molecular biological techniques (e.g. microarray expression analysis) in order to identify genes determining organ specific breast cancer metastasis. Using 3D breast cell cultures, and transgenic and knock out mouse models of breast cancer, we will analyze in detail the *in vivo* function of newly identified invasion and metastasis genes.

The successful applicant will join the established **Units for Molecular and Cellular Oncology** and **Molecular Cell Biology** at the **DMBR.** Appointments will begin on or after February 1st, 2004. For more information on the **DMBR,** see **http://www.dmbr.UGent.be**

International applicants are strongly encouraged to apply. Competitive European scale salaries will be offered that are commensurate with the applicant's experience.

Selected Publications:

Berx, G., Cleton-Jansen, A.-M., Nollet, F., de Leeuw, W.J.F., van de Vijver, M.J., Cornelisse, C., and **Van Roy, F.** (1995). E-cadherin is a tumor/invasion suppressor gene mutated in human lobular breast cancers. **EMBO J.** *14*, 6107-6115.

Berx, G., and **Van Roy, F.** (2001). The E-cadherin/catenin complex: An important gatekeeper in breast cancer tumorigenesis and malignant progression. **Breast Cancer Res.** *3*, 289-293.

Comijn, J., **Berx, G.**, Vermassen, P., Verschueren, K., van Grunsven, L., Bruyneel, E., Mareel, M., Huylebroeck, D., and **Van Roy, F.** (2001). The two-handed E box binding zinc finger protein SIP1 downregulates E-cadherin and induces invasion. **Mol. Cell** *7*, 1267-1278.

Interested applicants should send their Curriculum Vitae, summary of past and present research achievements, and the names and contact information of 3 references to:

Dr. Geert Berx and Dr. Frans Van Roy :
geert.berx@dmbr.Ugent.be - f.vanroy@dmbr.Ugent.be - Fax: 32-9-3313500

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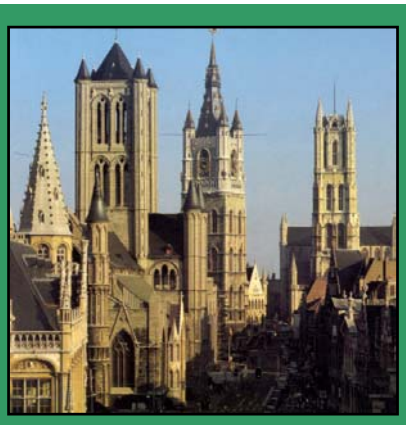

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