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**EDWARD A. GREENHALGH**  
**75 York St., Suite 1603**  
**Kitchener, Ontario N2G 1T5**  
**(519) 579-8320**

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**CAREER GOAL**

To use my abilities as a (BIOLOGICAL) RESEARCHER, WRITER and INSTRUCTOR

**QUALIFICATION HIGHLIGHTS**

- Strong Biology and Chemistry background augmented by personal interested in literature, art and history.
- Experienced in producing scientific and academic publications, plus other forms of books and pamphlets
- High communication skills at the professional and personal level with people of multidisciplinary backgrounds, i.e. medical, political, business, and the general public.
- Able to work and interact well with groups or individuals
- Proven ability to solve problems and develop unique solutions in detail, with determination and flexibility
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**RELEVANT ACHIEVEMENTS AND EXPERIENCE**

1. In 1997 “The Viroid Thermodynamic Theory on the Origin of Life” was presented at the University of Guelph.
2. A book in preparation (1994); working title: The Viroid Thermodynamic Theory on the Origin of Life (V.T.T.). This examines Entropy and Energy Conservation as the basis of evolution through the role of viruses, cellular development, thermodynamics and the survival of the most conservative (energy and information) species. In the course of this work, I have dealt with many prominent researchers.
3. A research proposal on the effects of a drug (RU486) ON HUMAN HEALTH, WHICH HAS RECEIVED SERIOUS REVIEW BY THE endocrine AND Metabolism Division of the Food and Drug Administration (Washington, D.C.) Summer 1994.

**Publications**

1. E.A. Greenhalgh. Luteal Steroidogenesis and Regression in the Rat: Effects of human chorionic gonadotropin and phospholipase A<sub>2</sub> on cells and plasma membranes. *Journal of Endocrinology* (1990) v. 125, 387-396.
2. E.A. Greenhalgh. Luteal Steroidogenesis and Regression in the Rat. Progesterone secretion and lipid peroxidation induced in luteal cells by human chorionic gonadotropin, phospholipase A<sub>2</sub> and prostaglandin F<sub>2a</sub>. *Journal of Endocrinology* (1990) v. 125, 397-402.
3. E.A. Greenhalgh. The Histological Responses of the field Cricket (*Acheta pennsylvanicus*) to Chlordane (a cyclodiene) and Rotenone (a botanical). *Toxicology* (1986), v. 42, 317-330.

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### Master Thesis:

Studies on corpus luteum function in the rat as probed by cell suspension and membrane polarization techniques. Work from the thesis received positive review from Dr. G.L. Nicolson of the M.D. Anderson cancer Center, Texas, who is a leading researcher in his field and the author of many important theories.

### Undergraduate Projects:

An investigation into the Structure and Morphology of the Brain of the Atlantic Blenny: the Rock Gunnel (Pholis gunnellus).

A Comparative Study to the Evolutionary Development of the Primates.

### Instructor Experience:

#### Teaching Assistant in Human Anatomy and Physiology.

Duties Included:

- oral and written instruction to large lab classes
- physical and audio/video demonstration
- equipment and experimental setup and examination
- consultation with and marking of students.

### Equipment and Techniques:

- Microtomes, JB4, cryostat, tissue processors, Radio-immuno-assay (RIA), enzyme assay techniques, tissue culture and sterile techniques.
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- The handling and treatment of laboratory animals, spectrophotometers, potentiometers, autoclaves, and centrifuges.
  - Familiarity with the P.C., Lotus 1-2-3, Basic and Fortran.
  - WHMIS (Workplace Hazardous Material Information systems) training which is a requirement for all workplaces including school, hospitals and universities.
  - Quality Assurance Program Training.

## EDUCATION AND TRAINING

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**Hons. B. Sc.**, Wilfrid Laurier University  
Waterloo, Ontario  
Major – Biology; Minor – Chemistry

**M. Sc. Biology** (Reproductive endocrinology)  
University of Waterloo, Waterloo, Ontario

### Relevant courses

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Histology  
Microtechnique  
Genetics  
Comparative Vertebrate Anatomy  
Comparative Mammalian anatomy  
Computer Languages, Fortran, Basic

Physiology  
Organic Chemistry  
Biochemistry  
Analytical Chemistry  
Industrial Chemistry

Advanced endocrinology  
Tissue Culture  
Prostaglandins  
Biological Membranes

**Reference available upon request.**