

## CURRICULUM VITAE

**NAME:** Kursad TURKSEN

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**BIRTH DATE:** December 27, 1952

**CITIZENSHIP:** Canadian

### RESEARCH INTERESTS:

Cell commitment and differentiation  
Epidermal and hair follicle lineages  
Drug delivery through epidermis  
Artificial epidermis

### MAJOR RESEARCH ACTIVITIES:

To characterize the role of growth factors in survival and maintenance of epidermal progenitors using differentiating stem/very early progenitor cells in vitro

To characterize the role of a newly identified novel epithelial specific junctional molecule in skin and hair follicle development

To characterize the role of a newly identified kinesin light chain like molecule in epidermal differentiation

### ACADEMIC QUALIFICATIONS:

DEGREE	MAJOR SUBJECT	UNIVERSITY	YEAR
B.Sc. (Hons.)	Biology	University of Ottawa Ottawa, Ontario	1979
Ph.D.	Dentistry (Cell Biology)	University of Toronto Toronto, Ontario	1991

**AWARDS:**

<b>NAME OF AWARD</b>	<b>YEAR HELD</b>
University of Toronto Open Fellowship	1986-1987
Ontario Graduate Scholarship	1988-1989
Ontario Graduate Scholarship -Declined	1989-1990
Medical Research Council of Canada Studentship	1989-1991
Medical Research Council of Canada Fellowship	1991-1993
Centennial Fellowship	1993-1996

**RESEARCH EXPERIENCE AND POSITIONS HELD:**

<b>YEAR</b>	<b>FIELD OF RESEARCH</b>
1986-1991	<p><b>Ph.D. Program:</b>            Analysis of the osteoblast lineage: Use of a cell culture model and monoclonal antibodies.            Supervisor: <b>Dr. Jane Aubin</b>,            MRC Group in Periodontal Physiology and Division of Biological Sciences,            Faculty of Dentistry, University of Toronto, Toronto, Ontario.</p>
1991-1993	<p><b>Postdoctoral Fellow:</b>            Role of cytokines in skin by overexpression in transgenic mice.            Supervisor: <b>Dr. Elaine Fuchs</b>,            Howard Hughes Medical Institute, Department of Molecular Genetics and            Cell Biology, University of Chicago, Chicago, Illinois, 60637, USA.</p>
1993-1996	<p><b>Centennial Fellow:</b>            Gene targetting in ES cells.            Supervisor: <b>Dr. Elaine Fuchs</b>,            Howard Hughes Medical Institute, Department of Molecular Genetics and            Cell Biology, University of Chicago, Chicago, Illinois, 60637, USA.</p>
1996-	<p><b>Scientist</b>            Hormones, Growth and Development Group, Loeb Health Research            Institute, Ottawa Hospital, Ottawa, Ontario.</p>
1996-	<p><b>Scientist</b>            Co-cross-appointment            Division of Endocrinology and Division of Dermatology,            Department of Medicine, Ottawa Hospital, Ottawa, Ontario.</p>

- 1999-2001      **Assistant Professor**  
 Cross-appointment  
 Department of Cellular and Molecular Medicine, University of Ottawa,  
 Ottawa, Ontario.
- 1997-            **Member**  
 Growth and Development Theme, Department of Cellular and Molecular  
 Medicine, University of Ottawa, Ottawa, Ontario.
- 1997-            **Member**  
 Graduate Faculty in the School of Graduate Studies, University of Ottawa,  
 Ottawa, Ontario.
- 1998-            **Associate Member**  
 Oncology Institute, Dokuz Eylul University, Izmir, Turkey.

**GRANTS:**

**Medical Research Council of Canada.**

Analysis of epidermal cell lineage: Use of an embryonic stem cell culture model.

**Natural Sciences and Engineering Research Council of Canada.**

Role of Calcium Sensing Receptor in Epithelial Differentiation.

**International Program for Animal Alternatives.**

Cellular and Molecular Analysis of Hair Follicle Stem Cells in vitro.

**INDUSTRIAL PARTNERS:**

Studies with Procter and Gamble Co.

**MEMBERSHIPS AND PROFESSIONAL SOCIETIES:**

American Society for Cell Biology.  
 Society for Developmental Biology.  
 American Association for Cancer Research.

**PUBLICATIONS**

	1st Auth.	Pub.	In Press	Sub.	In Prep.	Total
Papers	16	23	2		2	27
Abstracts	21	36	1		-	37
Chapters	0	2	-	-	-	2
Reviews	0	2	-	-	-	2

Oral Presentations	7	NA	NA	NA	NA	7
Invited Seminars	23	NA	NA	NA	NA	24

**THESIS:** **Turksen K.** 1991. **Analysis of the osteoblast lineage: Use of a cell culture model and monoclonal antibodies.** Ph.D. Thesis, University of Toronto, Toronto, Ontario.

**SELECTED REFEREED RESEARCH PAPERS:**

1. **K.Turksen**, J.E.Aubin, V.I.Kalnins. Identification of a centriole associated protein by antibodies present in normal rabbit sera. **Nature** 298:763-765,1982.
2. **K.Turksen**, M.Opas, J.E.Aubin, V.I.Kalnins. Microtubules, microfilaments and adhesion patterns in differentiating chick retinal pigment epithelial (RPE) cells in vitro. **Exp. Cell Res.** 147:379-391,1983.
3. M.Opas. **K.Turksen**, V.I.Kalnins. Adhesiveness and distribution of vinculin and spectrin in retinal pigmented epithelial cells during growth and differentiation in vitro. **Developmental Biol.** 107:269-280, 1985.
4. **K.Turksen**, A.E.Grigoriadis, J.N.M. Heersche, J.E.Aubin. Forskolin has biphasic effects on osteoprogenitor cell differentiation in vitro. **J. Cellular Physiology** 142:61-69, 1990.
5. **K.Turksen**, J.E.Aubin. Positive and negative immunoselection for enrichment of two classes of osteoprogenitor cells. **J. Cell Biology** 114: 373-384, 1991.
6. **K.Turksen**, Y.Choi, E.Fuchs. TGF $\alpha$  induces collagen degradation and cell migration in differentiating human epidermal raft cultures. **Molecular Biology of Cell** 2: 613-625, 1991.
7. **K.Turksen**, T.Kupper, L.Degenstein, I.Williams, E.Fuchs. IL-6: Insight to its function in skin by overexpression in transgenic mice. **Proc. Nat. Acad. Sci.** 89:5068-5072, 1992.
8. **K.Turksen**<sup>#</sup>, J.Cheng<sup>#</sup>, Q-C.Yu, H.Sreiber, M.Teng, E.Fuchs. Cachexia and graft versus host disease type skin changes in keratin promoter driven TNF $\alpha$  transgenic mice. **Genes and Development** 6:1444-1456, 1992.  
**#-co-first author**
9. L.M.Taylor, **K.Turksen**, J.E.Aubin, J.N.M.Heersche. Osteoclast differentiation in co-cultures of a clonal chondrogenic cell line and mouse bone marrow cells. **Endocrinology** 133: 2292-2300, 1993.
10. C. Lloyd, **K.Turksen**, J. Cheng, Q.C. Yu, L. Degenstein, E.Fuchs. A keratin 14 knockout in mice: Insights into the function and regulation of the intermediate filament network in stratified squamous epithelia. **J. Cell Biology** 129: 1329-1344. 1995.
11. J.E.Aubin, U.Bhargava, A. Gupta, **K.Turksen**. Expression and regulation of Galectin-3 in rat osteoblastic cells. **J. Cellular Physiology** 169: 468-480, 1996.
12. **K.Turksen**, T-C. Troy. Epidermal Lineage. **Biochemistry and Cell Biology**, In Press, 1999.

13. T. Troy, **K. Turksen**. In vitro characteristics of early epidermal progenitors isolated from keratin 14 deficient mice: Insights into the role of keratin 17 in mouse keratinocytes. **J. Cellular Physiology** In Press, 1999.
14. T. Troy and **K. Turksen**. Differentiation of embryonic stem cells into epidermal and hair follicle lineages in vitro. In Preparation
15. **K. Turksen**, T. Troy. Scullin overexpression in epidermis results in hair abnormalities: Use of transgenic mice. In Preparation.
16. **K. Turksen**, T. Troy Calcium sensing receptor: Insight to its function in skin by overexpression in transgenic mice. In Progress.