

RAVNEET K GREWAL

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PROFESSIONAL EMPLOYMENT

Department of Biotechnology (School of Emerging Technologies)

Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, India

Assistant Professor

January, 2015- till date

Department of Biochemistry (School of Biosciences and Biotechnology),

Lovely Professional University, Phagwara, Punjab, India

Assistant Professor

August, 2009- November, 2013

EDUCATION

Department of Biochemistry, Panjab University, Chandigarh, India

Ph.D. in Biochemistry

2003-2009

Master of Science (Honors) in Biochemistry

1999-2001

Bachelor of Science (Honors) in Biochemistry

1996-1999

RESEARCH EXPERIENCE

Ph.D. Dissertation

Thesis: Effect of chronic ethanol ingestion on intestinal glycosylation in rats.

2003-2009

M.Sc. Dissertation

Thesis: Studies on intestinal secretion of alkaline phosphatase in fat fed rats.

1999-2001

FELLOWSHIPS

Senior Research Fellow, Council for Scientific and Industrial Research, India.

2005-2008

Junior Research Fellow, Council for Scientific and Industrial Research, India.

2003-2005

Qualified **Indian Council of Medical Research (ICMR)** exam for research fellowship.

2002

Qualified Joint **CSIR-UGC National Eligibility Test (NET)** for Lectureship exam.

2002

PUBLICATIONS

1. Harman Kalsi, **Ravneet K Grewal** (2015) Studies on interaction of mouse intestinal P-glycoprotein with oral antidiabetic drugs and its inhibitors. **Indian Journal of Experimental Biology**. 53: 611-616.
2. Tajwinder Kaur, Amandeep Kaur, **Ravneet K Grewal** (2015) Kinetics studies with Fruit Bromelain (*Ananas Comosus*) in the presence of cysteine and divalent ions. **Journal of Food Science and Technology**. 52(9):5954–5960.
3. Karishma Saluja, Arun Singh Pathania, **Ravneet Kaur**, Mohit Chawla (2014) Human sialyltransferases: Modeling and interaction studies with anticancer phytochemicals . **Abstracts of papers-American Chemical Society**. 248 (BIOL): 59
4. **RK Grewal**, A Pathania, M Chawla (2014) Human sialyltransferases and its interaction with anticancer phytochemicals. **International Journal of Pharma and Biosciences**, 5(3): B691-698.
5. S Sharma, **RK Grewal** (2014) Invitro studies on the antioxidant activities of extracts from the flowers of *Gomphrena globosa*. **International Journal of Pharma and Biosciences**, 5(3): 457-465.
6. S Sharma, **RK Grewal**, M Chawla (2014) Structural analysis of HIV-2 reverse transcriptase and its docking with phytochemicals. **International Journal of Current Research**, 6(7): 7321-7325.
7. **RK Grewal**, A Mahmood (2010) The effects of ethanol administration on brush border membrane glycolipids in rat intestine. **Alcohol**, 44: 515-522.
8. **RK Grewal**, A Mahmood (2009) A shift in microvillus membrane fucosylation to sialylation by ethanol ingestion in rat intestine. **Molecular and Cellular Biochemistry**, 331(1-2):19-25.
9. **RK Grewal**, A Mahmood (2009) Ethanol induced changes in glycosylation of mucins in rat intestine. **Annals of Gastroenterology**, 22(3): 178-183.
10. **RK Grewal**, A Mahmood (2004) Coordinated secretion of alkaline phosphatase into serum and intestine in fat fed rats. **Indian Journal of Gastroenterology**, 23:175-177.

PROFESSIONAL ACHIEVEMENTS

1. An **abstract is included in eBook** entitled “Alcohol: Advances in Research and Application” by Q. Ashton Acton, 2011, Scholarly editions™, Atlanta, Georgia.
2. An **editorial** is published based on my reports in an international journal: Ethanol effects on mucin glycosylation: Another kick in the gut? (2009) *Annals of Gastroenterology*, 22(3): 138-140.

3. Life member of Society for Biological Chemists, India.
4. Reviewer in international journals- Digestive Diseases and Sciences, Tumor Biology and European Journal of Cancer Prevention.
5. Selected for **1st international e-learning course in Glycobiology and Glycochemistry** (May 2015- November, 2015) funded by **the EuroGlycoforum** and coordinated by Faculty of Medical Sciences NOVA Lisbon, Portugal and successfully completed the course in November, 2015 (**20/20 credits and 20 ECTS**).

ORAL PRESENTATION

Presented paper entitled “Kinetic modulation of fungal amylase in the presence of divalent ions” at an International Conference on Chemical and Biochemical Engineering (ICCBE), Auckland, New Zealand held on 7-8 June, 2016 and awarded certificate for best presentation.

POSTER PRESENTATIONS

- Tajwinder Kaur, Amandeep Kaur, **Ravneet Kaur Grewal** (2016) Kinetic Modulation of Bromelain (*Ananas comosus*) as a function of Activators and Inhibitors. New Zealand Institute of Food Science and Technology (NZIFST) Conference 2016, Rotorua, New Zealand.
- Gagandeep Kaur, Baldeep Kaur, Navjot Kaur, Mandeep Singh, **Ravneet Kaur Grewal** (2016) Kinetic modulation of fungal amylase in the presence of divalent ions. International Conference on Recent Advances in Emerging Technologies (ICRAET-2016), Fatehgarh Sahib, Punjab, India.
- Karishma Saluja, Arun Singh Pathania, **Ravneet Kaur**, Mohit Chawla (2014) Human sialyltransferases: Modeling and interaction studies with anticancer phytochemicals. 248 ACS National Meeting and Exposition, San Francisco (USA).
- Tajwinder Kaur, Amandeep Kaur and **Ravneet K Grewal** (2013) Effects of Ca^{2+} and Cu^{2+} on the kinetic characteristics of Bromelain extracted from *Ananas Comosus*. 82nd Annual Meeting of the Society of Biological Chemists (India) and International Conference on Genomes: Mechanism and Function, Hyderabad, India.
- **R Grewal**, A Mahmood (2007) Effect of chronic ethanol ingestion on intestinal glycosylation in rat intestine. 1st Chandigarh Science Congress, Chandigarh, India.
- **R Grewal**, A Mahmood (2005) Changes in membrane glycolipids in ethanol fed rat intestine, 74th Annual Conference of the Society of Biological Chemists (India), Lucknow, India.
- **R Grewal**, A Mahmood (2004) Protein synthesis inhibitors block the secretion on fat feeding in rats. 91st Indian Science Congress, Chandigarh, India.

WORKSHOP/CONFERENCE/ SYMPOSIUM ATTENDED

- Organised **workshop ‘Entrez to Biotechnology’** (2015) Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, India.
- **Summer Training Workshop on Modern Biotechnology (Molecular Medicine, Computational Biology and Drug Discovery)** (2014) Thaper University, Patiala, Punjab, India.
- **Workshop on Research Methodology** (2013) Thaper University, Patiala, Punjab, India.
- **Symposium on Diagnosis and Treatment of Gastrointestinal Infections** (2007) Post Graduate Institute of Medical Education and Research (PGIMER), Chandigarh, India.
- **Symposium on Emerging Trends in Biochemistry** (2006) Punjab University, Chandigarh, India.
- **Conference on Biotechnology** (2006) Agro Tech, Chandigarh.