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## CURRICULUM VITAE

### KAMALJIT KAUR, PH.D.

Associate Professor, Chapman University School of Pharmacy  
Editorial Board Member, *Scientific Reports* and *Pharmaceutics*

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#### I. ACADEMIC BACKGROUND

##### A. EDUCATION AND TRAINING

- 2001-2004: **Post-doctoral fellow**  
Department of Chemistry, University of Alberta, Alberta, Canada  
*Project:* Antimicrobial Peptides from Lactic Acid Bacteria (Supervisor: John C. Vederas)
- 1999-2001: **Post-doctoral fellow**  
Department of Chemistry, Wesleyan University, Connecticut, USA  
*Project:* Design, Synthesis, and Evaluation of Acyl Phosph(on)ates as  $\beta$ -Lactamase Inhibitors (Supervisor: Rex F. Pratt)
- 1994-1999: **Ph.D.** in Bioorganic Chemistry  
Department of Chemistry, Case Western Reserve University, Cleveland, Ohio, USA  
*Dissertation:* Modification of Proteins by Oxidized Lipids in LDL and Human Plasma: Immunodetection and Prevention (Supervisor: Robert G. Salomon)
- 1995-1998: **Graduate Student Fellow**  
Department of Cell Biology, Cleveland Clinic Foundation, Cleveland, Ohio, USA (Supervisor: Henry F. Hoff)
- 1993-1994: **Junior Research Fellow**  
Department of Chemistry, Indian Institute of Technology, Kanpur, India (Supervisor: Yeshwant. D. Vankar)
- 1991-1993: **M.Sc.** in Organic Chemistry  
Department of Chemistry, Indian Institute of Technology, Kanpur, India  
*Thesis Title:* Synthesis of Some Useful Chiral Intermediates via Enzymatic Resolution (Supervisor: Yeshwant. D. Vankar)
- 1988-1991: **B.Sc. Honors** in Chemistry  
Delhi University, New Delhi, India.

**B. ACADEMIC APPOINTMENTS**

|                  |  |
|------------------|--|
| 06/2015-present: | Associate Professor (tenured), Chapman University School of Pharmacy (CUSP), Chapman University, Irvine, CA, USA                     |
| 08/2016-02/2019: | Director, Center for Targeted Drug Delivery (CTDD), Chapman University, Irvine, CA, USA  |
| 08/2014-05/2015: | Distinguished Chancellor Fellow (0.2 FTE), Chapman University School of Pharmacy, Chapman University, Irvine, CA, USA                |
| 07/2012-05/2016: | Associate Professor (tenured), Faculty of Pharmacy and Pharmaceutical Sciences, University of Alberta, Canada (on leave 06/15-05/16) |
| 04/2004-06/2012: | Assistant Professor, Faculty of Pharmacy and Pharmaceutical Sciences, University of Alberta, Canada                                  |
| Delays           | Maternity leave (05/2004-08/2004, 4 months)<br>Childcare leave (09/2007-05/2008, 9 months)   |

**C. AWARDS AND AFFILIATIONS**

|            |  |
|------------|--|
| 2011       | Thieme Chemistry Journals Award 2011                             |
| 2005       | New Opportunities Fund Award, Canada Foundation for Innovation   |
| 1998       | Chemistry Department Fellowship, Depart. of Chemistry, CWRU, USA |
| 1994       | Graduate Aptitude Test in Engineering (GATE) Fellowship, India   |
| 1991-1993  | Government Merit Scholarship for M.Sc., India                    |
| Since 1999 | Member, American Chemical Society (ACS)                          |
| Since 2015 | Member, American Association of Colleges of Pharmacy (AACP)      |
| Since 2017 | Member, American Peptide Society (APS)                           |
| Since 2020 | Member, American Association for Cancer Research (AACR)          |
| 2018-2019  | Member, Materials Research Society (MRS)                         |
| 2014-2016  | Member, American Association of Pharmaceutical Scientists (AAPS) |
| 2013-2016  | Member, Canadian Federation of University Women (CFUW)           |
| 2005-2016  | Member, Association of Faculties of Pharmacy of Canada (AFPC)    |
| 2000-2016  | Member, Canadian Society for Chemistry (CSC)                     |
| 2004-2015  | Member, Canadian Society for Pharmaceutical Sciences (CSPS)      |

**II. RESEARCH AND SCHOLARLY ACTIVITIES****A. RESEARCH INTERESTS**

- *Engineering & Nanotechnology*: Peptides and Peptide-mimetics for Biomedical Applications
- *Targeted Drug Delivery*: Peptide Assisted Drug Delivery to Breast Cancer and Melanoma
- *Biomedical Diagnostics*: Peptide-based Platforms as Diagnostics for Cancer and Bacteria

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**B. RESEARCH GRANTS****Currently Held:**

**Source:** NIH-National Cancer Institute (NCI) (2017-2021)

**Title:** Breast cancer targeting peptides for improved efficacy of current cancer treatment

**Role:** PI (collaborator: Dr. Shiuan Chen, Beckman Research Institute, City of Hope)

**Held in the Past:**

**Source:** Alberta Innovates Bio Solutions (2013-2016)

**Title:** Increasing the activity and yields of bacteriocins for use in the food and animal industries

**Role:** PI (Co-PI: David Wishart and Lynn McMullen)

**Source:** Natural Sciences and Engineering Research Council of Canada (NSERC-Discovery) (2011-2016)

**Title:** Investigation of Peptides and Peptidomimetics for Developing Bioactive Molecules

**Role:** PI

**Source:** Canadian Institutes of Health Research (CIHR) Bridge Grant (2014-2015)

**Title:** Nanodelivery Systems for Modulation of Chemotherapy Response in Invasive and Metastatic Breast Cancer

**Role:** Co-PI (PI: Afsaneh Lavasanifar)

**Source:** NSERC-Strategic Projects (2011-2014)

**Title:** Detection of Pathogenic Bacteria through Antimicrobial Peptide-based Cantilever Bio-MEMS (MicroElectroMechanical System) Sensor

**Role:** PI (Co-PI: Thomas Thundat and Sushanta Mitra)

**Source:** Alberta Cancer Foundation Bridge Operating Grant (ACF-CIHR) (2013-2014)

**Title:** Tumor targeted polymeric nanocarriers for oncogene silencing therapy of metastatic breast cancer

**Role:** Co-PI (PI: Afsaneh Lavasanifar)

**Source:** Alberta Livestock and Meat Agency (ALMA) (2011-2013)

**Title:** Novel bactericidal peptides against *Mannheimia hemolytica*-induced feedlot pneumonia in cattle

**Role:** Co-PI (PI: Baljit Singh)

**Source:** Alberta Cancer Foundation Bridge Operating Grant (CIHR) (2011-2013)

**Title:** Ligand guided polymeric nano-carriers for tumor targeted drug & oncogene silencing therapy

**Role:** Co-PI (PI: Afsaneh Lavasanifar)

**Source:** JCR Biolab Inc. Irvine, CA, USA (2012)

**Title:** Development of a substrate-based reagent for the detection and enumeration of *E. coli*

**Role:** PI

**Source:** Canada Foundation for Innovation-Infrastructure Operating Fund (CFI-IOF) (2007-2012)

**Title:** Biomolecular Design and Peptidomimetic Drug Discovery Laboratory

**Role:** PI

**Source:** Canada Foundation for Innovation (CFI) and Alberta Advanced Education and Technology (AAET) (2011-2012)

**Title:** Facility to Support the Bench-to-bedside Development of Targeted Drugs and Drug Delivery Systems for Improved Therapeutic Performance

**Role:** Co-PI (PI: Afsaneh Lavasanifar)

**Source:** NSERC-Discovery (2008-2011)

**Title:** Peptidomimetic Approaches for Developing Biologically Active Molecules

**Role:** PI

**Source:** NSERC-Research Tools and Instruments Grant (NSERC-RTI) (2010-2011)

**Title:** Differential Scanning calorimetry for the development of new pharmaceuticals

**Role:** Co-PI (PI: Afsaneh Lavasanifar)

**Source:** International Science and Technology Partnerships Canada Inc. (ISTP) (2010-2011)

**Title:** Joint Indo-Canadian Meeting on Development of Low Cost Lab-on-a-Chip Medical Devices for Health Monitoring

**Role:** Co-PI (PI: Thomas Thundat)

**Source:** NSERC-Collaborative Health Research Projects (NSERC-CHRP) (2009-2010)

**Title:** A New Approach for Sensitization of Chemoresistant Cancers to Drug Therapy

**Role:** Co-PI (PI: Hasan Uludag)

**Source:** NSERC-Strategic Projects (2006-2010)

**Title:** Ligand guided polymeric nano-carriers for targeted vaccine and drug delivery in cancer

**Role:** Co-PI (PI: John Samuel)

**Source:** Canada Foundation for Innovation (CFI) (2005-2006)

**Title:** Biomolecular Design and Peptidomimetic Drug Discovery Laboratory

**Role:** PI

**Source:** Department of Medicine Research Funds, University of Alberta (2007-2008)

**Title:** Pilot Study for Allicin-mediated Decolonization of MRSA in Health Care Settings

**Role:** Co-PI (PI: Kanna Alagiakrishnan)

**Source:** Canadian Institutes of Health Research (CIHR) (2006-2010)

**Title:** Multi-user maintenance, equipment, and support for NMR facility

**Role:** Co-PI (PI: Edward Knaus)

## C. RESEARCH COMMUNITY

### *Editorial Board Member*

2020 – *Pharmaceutics* by MDPI

2017 – *Scientific Reports* by NPG

### *Conference Session Organizer*

2019 Co-Chair, Session: *Peptides as Cellular Reagents* at the American Peptide Symposium, Monterey, CA, USA, June 22-27, 2019

2015 Co-Chair, Session: *Cancer Targeted Delivery of Therapeutics and Diagnostics* at the PACIFICHEM 2015, Honolulu, Hawaii, USA, Dec 15-20, 2015

- 2012 Chair, Session: *Interfacial Phenomena at Micro and Nanoscale* at the 10<sup>th</sup> International Conference on Nanochannels, Microchannels and Minichannels (ICNMM), ASME 2012, Rio Grande, Puerto Rico, July 8-12, 2012.
- 2009 Chair, Session: *Peptides and Peptidomimetics* at the 92<sup>nd</sup> Canadian Chemistry Conference and Exhibition, Hamilton, ON, Canada, May 30-June 3, 2009

#### **Grant Review Panel**

- 2021 (Feb) NCI Clinical & Transl. Exploratory/Developmental Studies (Special Emphasis)
- 2020 (Jul) NIAID Emergency Awards: Rapid Investigation of SARS CoV-2 and COVID19
- 2020 (Jun) NCI Clinical & Transl. Exploratory/Developmental Studies (Special Emphasis)
- 2020 (May) CIHR, COVID-19 Rapid Research - Therapeutics
- 2020 (Mar) NCI Cancer Health Disparities (Special Emphasis)
- 2020 (Feb) NCI Clinical & Transl. Exploratory/Developmental Studies (Special Emphasis)
- 2019 (Jun) NCI Clinical & Transl. Exploratory/Developmental Studies (Special Emphasis)
- 2018 – College of Reviewers Member, Canadian Institutes of Health Research (CIHR)
- 2016 (Jun) CIHR, Stage 1 review process of the Project Grant competition
- 2013 (Nov) CIHR, Pharmaceutical Sciences Committee
- 2011 (Apr) CIHR, Pharmacology and Toxicology Committee
- 2010–2015 Canadian Breast Cancer Foundation-Prairies/NWT Region

#### **Reviewer for >20 Grant Applications**

#### **Regular or Frequent Reviewer for following Journals**

Analytical Chemistry; ACS Applied Materials and Interfaces; Biochimica et Biophysica Acta (BBA)-Biomembranes; BMC Microbiology; BMC Structural Biology; Bioconjugate Chemistry; Biomacromolecules; Bioorganic and Medicinal Chemistry; Bioorganic and Medicinal Chemistry Letters; Biopolymers; Chemical Biology & Drug Design; Chemical Reviews; ChemMedChem; Critical Reviews in Biotechnology; Drug Delivery and Translational Research; European Journal of Medicinal Chemistry; Environmental Science & Technology; Journal of Biomedicine and Biotechnology; Journal of the American Chemical Society (JACS); Journal of Cancer; Journal of Chemical Information and Modeling; Journal of Combinatorial Chemistry; Journal of Medicinal Chemistry; Journal of Pharmacy & Pharmaceutical Sciences; Journal of Polymer Science, Part A: Polymer Chemistry; Langmuir; Molecular Pharmaceutics; Organic Letters

## **D. RESEARCH CONTRIBUTIONS AND PRACTICAL APPLICATIONS**

### **REFEREED JOURNAL PUBLICATIONS**

**Published** (trainee names under my supervision are underlined, \*corresponding author)

**h index = 31 (total citations 2637) Google Scholar; [n=69]**

1. M. Alas, A. Saghaeidehkordi, **K. Kaur\***, Peptide-Drug Conjugates with Different Linkers for Cancer Therapy, *J. Med. Chem.* **2021**, *64*, 216-232.
2. E. Ziaei, A. Saghaeidehkordi, C. Dill, I. Maslennikov, S. Chen, **K. Kaur\***, Targeting Triple Negative Breast Cancer Cells with Novel Cytotoxic Peptide-Doxorubicin Conjugates, *Biocon. Chem.*, **2019**, *30*, 3098-3106.

3. R. Soudy, R. Kimura, A. Patel, W. Fu, **K. Kaur**, D. Westaway, J. Yang, J. Jhamandas\*, Short amylin receptor antagonist peptides improve memory deficits in Alzheimer's disease mouse model, *Sci. Rep. (Nature Publishing Group)*, **2019**, *9*, 10942:1-11.
4. H. Hossein-Nejad-Ariani, E. Althagafi, **K. Kaur\***, Small peptide ligands for targeting EGFR in triple negative breast cancer cells, *Sci. Rep. (Nature Publishing Group)*, **2019**, *9*, 2723:1-10.
5. S.B. Patil, R.M. Al-Jehani, H. Etayash, V. Turbe, K. Jiang, J. Bailey, W. Al-Akkad, R. Soudy, **K. Kaur**, R.A. McKendry, T. Thundat, J.W. Ndieyira\*, Modified cantilever arrays improve sensitivity and reproducibility of nanomechanical sensing in living cells, *Commun. Biol. (Nature Publishing Group)* **2018**, *1*, 175.
6. H. Soleymani Abyaneh, A.H. Soleimani, M.R. Vakili, R. Soudy, **K. Kaur**, F. Cuda, A. Tavassoli, A. Lavasanifar\*, Modulation of Hypoxia-Induced Chemoresistance to Polymeric Micellar Cisplatin: The Effect of Ligand Modification of Micellar Carrier Versus Inhibition of the Mediators of Drug Resistance, *Pharmaceutics*, **2018**, *10*, 196.
7. W. Mohammed-Saeid, R. Soudy, R. Tikoo, **K. Kaur**, R. Verrall, I. Badea\*, Design and evaluation of gemini surfactant-based lipoplexes modified with cell-binding peptide for targeted gene therapy in melanoma model, *J. Pharm. Pharm. Sci.*, **2018**, *21*, 363-375.
8. H. Hossein-Nejad-Ariani, T. Kim, **K. Kaur\***, Peptide-based Biosensor Utilizing Fluorescent Gold Nanoclusters for Detection of *Listeria monocytogenes*, *ACS Appl. Nano Mater.*, **2018**, *1*, 3389-3397.
9. W. Fu, V. Vukojevic, A. Patel, R. Soudy, D. MacTavish, D. Westaway, **K. Kaur**, V. Goncharuk, J. Jhamandas\*, Role of microglial amylin receptors in mediating beta amyloid (A $\beta$ )-induced inflammation, *J. Neuroinflammation*, **2017**, *14*, 199 (1-12).
10. D.R. Balay, R.V. Dangeti, **K. Kaur**, L.M. McMullen\*, Purification of leucocin A for use on wieners to inhibit *Listeria monocytogenes* in the presence of spoilage organisms, *Int. J. Food Microbiol.*, **2017**, *255*, 25-31.
11. S.M. Garg, I.M. Paiva, M.R. Vakili, R. Soudy, K. Agopsowicz, A.H. Soleimani, M. Hitt, **K. Kaur**, A. Lavasanifar\*, Traceable PEO-poly(ester) micelles for breast cancer targeting: The effect of core structure and targeting peptide on micellar tumor accumulation, *Biomaterials* **2017**, *144*, 17-29.
12. Y. Raghuvanshi, H. Etayash, R. Soudy, I. Paiva, A. Lavasanifar, **K. Kaur\***, Proteolytically stable cyclic decapeptide for breast cancer cell targeting, *J. Med. Chem.* **2017**, *60*, 4893-4903.
13. R. Soudy, H. Etayash, K. Bahadorani, A. Lavasanifar, **K. Kaur\***, Breast Cancer Targeting Peptide Binds Keratin 1: A New Molecular Marker for Targeted Drug Delivery to Breast Cancer, *Mol. Pharm.*, **2017**, *14*, 593-604
14. R. Soudy, N. Byeon, Y. Raghuvanshi, S. Ahmed, A. Lavasanifar, **K. Kaur\***, Engineered Peptides for Applications in Cancer Targeted Drug Delivery and Tumor Detection, *Mini Rev. Med. Chem.*, **2017**, *17*, 1696-1712.
15. P.M. Shaibani, H. Etayash, S. Naicker, **K. Kaur**, T. Thundat\*, Metabolic Study of Cancer Cells using a pH Sensitive Hydrogel Nanofiber Light Addressable Potentiometric Sensor (NF-LAPS), *ACS Sens.* **2017**, *2*, 151-156.
16. R. Soudy, A. Patel, W. Fu, **K. Kaur**, D. MacTavish, D. Westaway, R. Davey, J. Zajac, J. Jhamandas\*, Cyclic AC253, a novel amylin receptor antagonist, improves cognitive deficits in a mouse model of Alzheimer's Disease, *Alzheimer's & Dementia: Translational Research & Clinical Interventions*, **2017**, *3*, 44-56.

17. H. Etayash, M.F. Khan, **K. Kaur\***, T. Thundat\*, Microfluidic cantilever detects bacteria and measures their susceptibility to antibiotics in small confined volumes, *Nature Comm.* **2016**, *7*, 12947.
18. H. Etayash, A.R. McGee, **K. Kaur**, T. Thundat\*, Nanomechanical sandwich assay for multiple cancer biomarkers in breast cancer cell-derived exosomes, *Nanoscale* **2016**, *8*, 15137-41.
19. **K. Kaur\***, O. Tarassova, R.V. Dangeti, S. Azmi, D. Wishart, L. McMullen, M. Stiles, Characterization of a highly potent antimicrobial peptide microcin N from Uropathogenic *Escherichia coli*, *FEMS Microbiol. Lett.* **2016**, *11*, 363.
20. H. Etayash, K. Jaing, S. Azmi, T. Thundat, **K. Kaur\***, Real-time Detection of Breast Cancer Cells Using Peptide-functionalized Microcantilever Arrays, *Sci. Rep. (Nature Publishing Group)*, **2015**, *5*, 13967:1-13.
21. K. Jiang, H. Etayash, S. Azmi, S. Naicker, M. Hassanpourfard, P.M. Shaibani, G. Thakur, **K. Kaur**, T. Thundat\*, Rapid Label-free Detection of *E. coli* using Antimicrobial Peptide Assisted Impedance Spectroscopy, *Anal. Methods*, **2015**, *7*, 9744-9748.
22. H. Etayash, S. Azmi, R. Dangeti, **K. Kaur\***, Peptide Bacteriocins – Structure Activity Relationships, *Curr. Top. Med. Chem.*, **2015**, *16*, 220-241.
23. H. Trzeciakiewicz, J. Esteves-Villanueva, R. Soudy, **K. Kaur**, S. Martic-Milne\*, Electrochemical Characterization of Protein Adsorption onto YNGRT-Au and VLGXE-Au Surfaces, *Sensors*, **2015**, *15*, 19429-19442.
24. M. H. Gilzad-Kohan\*, **K. Kaur**, and F. Jamali, Synthesis and characterization of a new peptide prodrug of glucosamine with enhanced gut permeability, *PLoS One*, **2015**, *10*(5), e0126786.
25. S. Azmi, K. Jaing, T. Thundat, **K. Kaur\***, Detection of *Listeria monocytogenes* with short peptide fragments from class IIa bacteriocins as recognition elements, *ACS Comb. Sci.*, **2015**, *17*, 156-163. (selected for cover page picture)
26. **K. Kaur\***, S. Bhattacharjee, R. Pillai, S. Ahmed, S. Azmi, Peptide Arrays for Detecting Naphthenic Acids in Oil Sands Process Affected Water, *RSC Advances*, **2014**, *4*, 60694-60701.
27. S. Ahmed, T. Sprules, and **K. Kaur\***, Structural similarity between  $\beta^3$ -Peptides synthesized from and  $\beta^3$ -homo-amino acids and L-aspartic acid monomers, *Biopolymers (Peptide Science)*. **2014**, *102*, 359-367.
28. N.S.K. Gunda, M. Singh, L. Norman, **K. Kaur**, and S.K. Mitra\*, Optimization and characterization of biomolecule immobilization on silicon substrates using (3-aminopropyl)triethoxysilane (APTES) and glutaraldehyde link, *Applied Surface Science. Microdevices*, **2014**, *305*, 522-530.
29. H. Etayash, K. Jaing, T. Thundat, **K. Kaur\***, Impedimetric Detection of Pathogenic Gram-Positive Bacteria using An Antimicrobial Peptide from Class IIa Bacteriocins, *Anal. Chem.*, **2014**, *86*, 1693-1700.
30. H. Etayash, L. Norman, T. Thundat, M. Stiles, **K. Kaur\***, Surface Conjugated Antimicrobial Peptide Leucocin A Displays High Binding to Pathogenic Gram-positive Bacteria, *ACS Appl. Mater. Interfaces*, **2014**, *6*, 1131-1138.
31. R. Soudy, C. Chen, and **K. Kaur\***, Novel Peptide-Doxorubicin Conjugates for Targeting Breast Cancer Cells including the Multidrug Resistant Cells, *J. Med. Chem.*, **2013**, *56*, 7564-7573.
32. M. H. Gilzad-Kohan, **K. Kaur**, and F. Jamali\*, The Antiinflammatory Action and Pharmacokinetics of a Novel Di-Peptide Aminosugar, *J. Pharm. Pharm. Sci.*, **2013**, *16*, 279-288.

33. N.S.K. Gunda, M. Singh, Y. Purwar, S.L. Shah, **K. Kaur**, and S.K. Mitra\*, Micro-spot with Integrated Pillars (MSIP) for Detection of Dengue Virus NS1, *Biomed. Microdevices*, **2013**, *15*, 959-971.
34. A.S. Mathews, S. Ahmed, M. Shahin, A. Lavasanifar and **K. Kaur\***, Peptide modified Polymeric Micelles Specific for Breast Cancer Cells, *Bioconjugate Chem.*, **2013**, *24*, 560-570.
35. K. Bodapati, R. Soudy, H. Etayash, Michael Stiles, and **K. Kaur\***, Design, Synthesis and Evaluation of Antimicrobial Activity of N-Terminal Modified Leucocin A Analogues, *Bioorg. Med. Chem.*, **2013**, *21*, 3715-3722.
36. H. Etayash, L. Norman, T. Thundat, **K. Kaur\***, Peptide-Bacteria Interactions using Engineered Surface Immobilized Peptides from Class IIa Bacteriocins, *Langmuir*, **2013**, *29*, 4048-4056.
37. A. Sohrabi, P.M. Shaibani, H. Etayash, **K. Kaur**, T. Thundat\*, Sustained drug release and antibacterial activity of ampicillin incorporated poly(methyl methacrylate)-nylon6 core/shell nanofibers, *Polymer*, **2013**, *54*, 2699-2705.
38. M. Shahin, R. Soudy, H.M. Aliabadi, N. Kneteman, **K. Kaur**, A. Lavasanifar\*, Engineered breast tumor targeting peptide ligand modified liposomal doxorubicin and the effect of peptide density on anticancer activity, *Biomaterials* **2013**, *34*, 4089-4097.
39. R. Soudy, S. Ahmed and **K. Kaur\***, NGR Peptide Ligands for Targeting CD13/APN Identified through Peptide Array Screening Resemble Fibronectin Sequences, *ACS Comb. Sci.*, **2012**, *14*, 590-599. (selected for cover page picture)
40. M. Shahin, R. Soudy, H. El-Sikhry, J.M. Seubert, **K. Kaur**, A. Lavasanifar\*, Engineered peptides for the development of actively tumor targeted liposomal carriers of doxorubicin, *Cancer Lett.*, **2012**, *334*, 284-292.
41. D. Raghuwanshi, V. Mishra, M.R. Suresh, **K. Kaur\***, A simple approach for enhanced immune response using engineered dendritic cell targeted nanoparticles, *Vaccine*, **2012**, *30*, 7292-7299.
42. R. Soudy, L. Wang, and K. Kaur\*, Synthetic Peptides derived from the Sequence of a Lasso Peptide Microcin J25 show Antibacterial Activity, *Bioorg. Med. Chem.*, **2012**, *20*, 1794-1800.
43. D. Raghuwanshi, V. Mishra, D. Das, **K. Kaur\***,\* and M.R. Suresh, Dendritic Cell Targeted Chitosan Nanoparticles for Nasal DNA Immunization against SARS CoV Nucleocapsid Protein, *Mol. Pharmaceutics* **2012**, *9*, 946-956.
44. R. Soudy, A. Gill, T. Sprules, A. Lavasanifar, and **K. Kaur\***, Proteolytically Stable Cancer Targeting Peptides with High Affinity for Breast Cancer Cells, *J. Med. Chem.*, **2011**, *54*, 7523-7534.
45. W. Soliman, L.Wang, S. Bhattacharjee, and **K. Kaur\***, Structure-activity relationships of an antimicrobial peptide Plantaricin S from two-Peptide class IIb bacteriocins, *J. Med. Chem.* **2011**, *54*, 2399-2408.
46. M. Shahin, S. Ahmed and **K. Kaur**, A. Lavasanifar\*, Decoration of polymeric micelles with cancer-specific peptide ligands for active targeting of paclitaxel, *Biomaterials* **2011**, *32*, 5123-5133.
47. M. Abbasi, H.M. Aliabadi, E.H. Moase, A. Lavasanifar, **K. Kaur**, R. Lai, C. Doillon, H. Uludağ\*, siRNA-Mediated Down-Regulation of P-glycoprotein in a Xenograft Tumor Model in NOD-SCID Mice, *Pharm. Res.* **2011**, *28*, 2516-2529.
48. S. Ahmed, A.S. Mathews, N. Byeon, A. Lavasanifar, **K. Kaur\***, Peptide Arrays for Screening Cancer Specific Peptides. *Anal. Chem.*, **2010**, *82*, 7533-7541.



49. W. Soliman, S. Bhattacharjee, and **K. Kaur\***, Adsorption of an Antimicrobial Peptide on Self-Assembled Monolayers by Molecular Dynamics Simulation, *J. Phys. Chem. B* **2010**, *114*, 11292-11302.
50. W. Soliman, S. Bhattacharjee, and **K. Kaur\***, Interaction of an Antimicrobial Peptide with a Model Lipid Bilayer using Molecular Dynamics Simulation, *Langmuir* **2009**, *25*, 6591-6595.
51. S. Ahmed and **K. Kaur\***, The Proteolytic Stability and Cytotoxicity Studies of L-Aspartic Acid and L-Diaminopropionic Acid derived  $\beta$ -Peptides and a Mixed  $\alpha/\beta$ -Peptide, *Chem. Biol. Drug Des.* **2009**, *73*, 545-552.
52. R. Beleid, D. Douglas, N. Kneteman, and **K. Kaur\***, Helical peptides derived from lactoferrin bind hepatitis C virus envelope protein E2, *Chem. Biol. Drug Des.* **2008**, *72*, 436-443.
53. **K. Kaur\***, T. Sprules, W. Soliman, R. Beleid, S. Ahmed, Right-handed 14-Helix in beta(3)-Peptides from L-Aspartic Acid Monomers, *Biochim. Biophys. Acta* **2008**, *1784*, 658-665.
54. W. Soliman, S. Bhattacharjee, and **K. Kaur\***, Molecular dynamics simulation study of interaction between a class IIa bacteriocin and its immunity protein, *Biochim. Biophys. Acta* **2007**, *1774*, 1002-1013.
55. S. Ahmed, R. Beleid, T. Sprules, and **K. Kaur\***, Solid-phase synthesis and CD spectroscopic investigations of novel  $\beta$ -peptides from L-aspartic acid and  $\beta$ -amino-L-alanine, *Org. Lett.* **2007**, *9*, 25-28.
56. L.J. Gursky, N.I. Martin, D.J. Derksen, M.J. Van Belkum, **K. Kaur**, J.C. Vederas, M.E. Stiles, L.M. McMullen\*, Production of piscicolin 126 by *Carnobacterium maltaromaticum* UAL26 is controlled by temperature and induction peptide concentration, *Arch. Microbiol.* **2006**, *186*, 317-325.
57. **K. Kaur**, L.C. Andrew, D.S. Wishart, and J.C. Vederas\*, Dynamic relationships among type IIa bacteriocins: Temperature effects on antimicrobial activity and on structure of the C-terminal amphipathic  $\alpha$ -helix as a receptor binding region, *Biochemistry* **2004**, *43*, 9009-9020.
58. N.R. Silvaggi, **K. Kaur**, S.A. Adediran, R.F. Pratt\*, and J.A. Kelly\*, Toward better antibiotics: Crystallographic studies of a novel class of DD-peptidase/ $\beta$ -lactamase inhibitors, *Biochemistry* **2004**, *43*, 7046-7053.
59. **K. Kaur**, S.A. Adediran, M.J.K. Lan, and R.F. Pratt\*, Inhibition of  $\beta$ -lactamases by monocyclic acyl phosph(on)ates, *Biochemistry* **2003**, *42*, 1529-1536.
60. **K. Kaur**, M.J.K. Lan, and R.F. Pratt\*, Mechanism of inhibition of the class C  $\beta$ -lactamase of *Enterobacter cloacae* P99 by cyclic acyl phosph(on)ates: Rescue by return, *J. Am. Chem. Soc.* **2001**, *123*, 10436-10443.
61. **K. Kaur** and R.F. Pratt\*, Mechanism of reaction of acyl phosph(on)ates with the  $\beta$ -lactamase of *Enterobacter Cloacae* P99, *Biochemistry* **2001**, *40*, 4610-4621.
62. R.G. Salomon\*, **K. Kaur**, and E. Batyreva, Isolevuglandin-protein adducts in oxidized low density lipoprotein and human plasma: A strong connection with cardiovascular disease, *Trends Cardiovasc. Med.*, **2000**, *10*, 53-59.
63. R.G. Salomon\*, **K. Kaur**, E. Podrez, H.F. Hoff, A.V. Krishinsky, L.M. Sayre, HNE-derived 2-pentylpyrroles are generated during oxidation of LDL, are more prevalent in blood plasma from patients with renal disease or atherosclerosis, and are present in atherosclerotic plaques, *Chem. Res. Toxicol.*, **2000**, *13*(7), 557-564.

64. R.G. Salomon\*, E. Batyreva, **K. Kaur**, D. Sprecher, M.J. Schreiber, J.W. Crabb, M.S. Penn, A.M. DiCorleto, S.L. Hazen, E.A. Podrez, Isolevuglandin-protein adducts in humans: products of free radical-induced lipid oxidation through the isoprostane pathway, *Biochim. Biophys. Acta*, **2000**, 1485(2-3), 225-235.
65. R.G. Salomon\*, W. Sha, C. Brame, **K. Kaur**, G. Subbanagounder, J. O'Neil, H.F. Hoff and L.J. Roberts II, Protein adducts of iso[4]levuglandin E<sub>2</sub>, a product of the isoprostane pathway, in oxidized low density lipoprotein, *J. Biol. Chem.*, **1999**, 274(29), 20271-20280.
66. **K. Kaur**, R.G. Salomon\*, J. O'Neil, and H.F. Hoff, Carboxyalkyl pyrroles in human plasma and oxidized low density lipoproteins, *Chem. Res. Toxicol.*, **1997**, 10(12), 1387-1396.
67. R.G. Salomon\*, G. Subbanagounder, J. O'Neil, **K. Kaur**, M.A. Smith, H.F. Hoff, G. Perry, and V.M. Monnier, Levuglandins E<sub>2</sub>-protein adducts in human plasma and vasculature, *Chem. Res. Toxicol.*, **1997**, 10(5), 536-545.
68. L.M. Sayre, W. Sha, G. Xu, **K. Kaur**, D. Nadkarni, G. Subbanagounder, and R.G. Salomon\*, Immunochemical evidence supporting 2-pentylpyrrole formation on proteins exposed to 4-hydroxy-2-nonenal, *Chem. Res. Toxicol.*, **1996**, 9(7), 1194-1201.
69. Y.D. Vankar\*, G. Kumaravel, I. Bhattacharya, P.S. Vankar, and **K. Kaur**, Reactions of 2-phenylthio-2-cycloalkenones and 2-[phenyl(thiomethyl)]-2-cycloalkenones: Synthesis of some useful chiral and achiral intermediates, *Tetrahedron*, **1995**, 51, 4829-4840.

#### BOOK CHAPTERS [n=4]

70. H. Etayash, T. Thundat, **K. Kaur\***, Bacterial Detection using Peptide-based Platform and Impedance Spectroscopy, in *Methods Mol. Biol.*, Biosensors and Biodetection: Methods and Protocols, Second Edition, Edited by Avraham Rasooly and Ben Prickril, **2017**, Vol 1572, 113-124.
71. **K. Kaur\***, S. Ahmed, R. Soudy, S. Azmi, Screening Peptide Array Library for the Identification of Cancer Cell Binding Peptides, in *Methods Mol. Biol.*, Peptide Libraries, Edited by R. Derda, Springer, **2015**, Vol 1248, 239-247.
72. S. Bhattacharjee and **K. Kaur**, van der Waals and Casimir Interactions, in *Microfluidics and Nanofluidics Handbook*, Edited by S. K. Mitra and S. Chakraborty, CRC Taylor and Francis, **2011**.
73. **K. Kaur\***, D. Das, M. Suresh, Protein-Protein Interactions, in *Preclinical Development Handbook*, ADME and Biopharmaceutical Properties, Edited by Shayne C. Gad, John Wiley & Sons, Inc., NJ, USA **2008**, pp 87-116.

#### PATENTS [n=3]

1. Kamaljit Kaur and Hanieh Hossein-Nejad-Ariani, Rapid Selective Detection of *Listeria monocytogenes*, U.S. non Provisional Patent filed Nov 14, 2018 (application # 1959206-00007), U.S. Provisional Patent filed Nov 10, **2017**.
2. Jack Jhamandas, Rania Soudy, Kamaljit Kaur, When Fu, David, Mactavish, Aarti Patel, Brain Penetrant Amylin Receptor Based Peptides for Alzheimer's Disease, U.S. Patent Application No. 62/396,370 filed Sep 15, **2017**.
3. Fahkreddin Jamali, Kamaljit Kaur, Mohammadhossien Gilzad, Glucosamine Pro-drugs, U.S. Patent Application No. 13/622,516 filed Sep 2012, Patent No. 8772227, issue date July 08, **2014**.

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**INVITED SPEAKER [n=27]**

1. Peptide-Drug Conjugates for Treatment of Triple-Negative Breast Cancer, Department Seminar, Department of Biochemistry, City University of New York (CUNY), New York, USA, Nov 30, **2020**.
2. Breast Cancer Detection and Treatment with Engineered Peptides, Association of Official Analytical Communities (AOAC)-SCS Conference in partnership with United States Pharmacopeia (USP), Irvine, California, USA, Dec 04, **2019**.
3. TNBC Detection and Treatment with Engineered Peptides and Peptide-drug Conjugates, Breast DOT Meeting, University of California-Irvine (UCI) Medical Center, Orange, California, USA, Oct 29, **2019**.
4. Peptide Engineering for Targeting Pathogenic Bacteria and Cancer Cells, College of Osteopathic Medicine, Western University of Health Sciences, Pomona, California, USA, Dec 14, **2018**
5. Microcantilever arrays functionalized with a breast cancer targeting peptide as detection platforms for circulating tumor cells, Chemistry & Biology of Peptides, Gordon Research Conference, Ventura, California, USA, February 21 – 26, **2016**.
6. Peptide-functionalized microcantilever arrays as detection platforms for circulating tumor cells in human blood, PACIFICHEM 2015, Honolulu, Hawaii, USA, Dec 19, **2015**.
7. Peptide-based Platforms as Biosensors for Bacteria and Circulating Tumor Cells, School of Pharmacy, Chapman University, Irvine, California, USA, Apr 01, **2015**.
8. Peptide Engineering for Targeting Pathogenic Bacteria and Cancer Cells, Department of Chemistry, Indian Institute of Technology Delhi, New Delhi, India, Aug 12, **2014**.
9. The Power of Peptides in Cancer Treatment and other Biomedical Applications, Edmonton Biology and Chemistry Regional's Annual Conference, Edmonton, Alberta, Canada, May 02, **2014**.
10. Peptide Engineering for Biomedical Applications, Canadian Federation of University Women, Edmonton, Alberta, Canada, 18<sup>th</sup> November **2013**.
11. Engineering Proteolytically Stable Peptides for Cancer Targeting, 3<sup>rd</sup> Euro-India International Conference on Nanomedicine and Tissue Engineering, Kottayam, Kerala, India, 9<sup>th</sup> August **2013** (Symposium: Nanotechnology for Cancer).
12. Peptide Engineering for Food Safety and Biomedical Applications, Department of Chemical Technology, University of Calcutta, Calcutta, India, 7<sup>th</sup> August **2013**.
13. Peptide Engineering for Targeting Pathogenic Bacteria and Cancer Cells, Department of Pharmaceutical Sciences, University of California, Irvine, California, USA, 26<sup>th</sup> June **2013**.
14. Peptide Engineering for Improving the Outcome of Current Therapeutics and Diagnostics for Cancer, 3<sup>rd</sup> Western Canadian Medicinal Chemistry Workshop, Saskatoon, Saskatchewan, Canada, September 28-30, **2012**.
15. Peptides for Targeting Anticancer Drugs Specifically to the Cancer Site, 95<sup>th</sup> Canadian Chemistry Conference and Exhibition, Calgary, Alberta, Canada, May 30, **2012**. (Symposium: Antimicrobial and Host-defense Peptides).
16. Peptide Engineering for Targeting Cancer Cells, Leslie Dan Faculty of Pharmacy, University of Toronto, Toronto, Ontario, 11<sup>th</sup> Nov **2011**.

17. Engineering Small Peptides for Cancer Drug Delivery and Diagnostics, Department of Chemistry, New York University, New York, USA, 7<sup>th</sup> Nov **2011**.
18. Engineering Biologically Active Peptides, Department of Chemistry, Wesleyan University, Connecticut, USA, 4<sup>th</sup> Nov **2011**.
19. Engineering Proteolytically Stable Breast Cancer Targeting Peptides, 94<sup>th</sup> Canadian Chemistry Conference and Exhibition, Montreal, Quebec, Canada, June 5- 9, **2011**. (Symposium: Peptide Science).
20. Peptide Arrays for Screening Cancer Targeting Agents, International Science and Technology Partnership (ISTP) Indo-Canadian Workshop, Joint Indo-Canadian Meeting on Development of Low-Cost Lab-on-a-chip Medical Devices for Health Monitoring, IIT Bombay, India, January 7-11, **2011**.
21. Cancer Targeting Peptides from Peptide Arrays, PACIFICHEM, Honolulu, Hawaii, USA, Dec 17, **2010**. (Symposium: Protein, Peptide, and Peptidomimetics Design by the International Chemical Congress of Pacific Basin Societies).
22. Peptide Arrays for Selecting Cancer Targeting Peptides, 93<sup>rd</sup> Canadian Chemistry Conference and Exhibition, Toronto, ON, Canada, May 29- June 2, **2010**. (Symposium: Peptides and Their Pharmaceutical Relevance, organized by Eli Lilly Inc. Canada).
23. Design and Synthesis of Novel  $\beta$ -peptides as Entry Inhibitors of Hepatitis C Virus, 89<sup>th</sup> Canadian Chemistry Conference and Exhibition, Halifax, NS, Canada, May 28, **2006**. (Symposium: Peptide Science).
24. Peptides as therapeutics: Simulation of peptide-peptide interactions, Faculty of Pharmacy and Pharmaceutical Sciences, University of Alberta, Edmonton, Alberta, November **2005**.
25. Alternatives to Antibiotics: Structure & Mechanism of Antimicrobial Peptides from Lactic Acid Bacteria, Faculty of Pharmacy and Pharmaceutical Sciences, University of Alberta, Edmonton, Alberta, October **2003**.
26. Mechanism of Inhibition of *Enterobacter cloacae* P99  $\beta$ -Lactamase by Cyclic Acyl Phosphate, Department of Chemistry, Wesleyan University, Middletown, Connecticut, October **2000**.
27. Two-faced Substrates/Inhibitors of Class C  $\beta$ -Lactamase of *Enterobacter cloacae* P99, Department of Chemistry, Wesleyan University, Middletown, Connecticut, September **1999**.

## CONFERENCE PRESENTATIONS

>85 oral or poster presentations at the national or international conferences.

## III. TEACHING

### A. TEACHING

#### Pharm. D. Courses (Currently taught)

PHRM 552 - Pharmacology/Med Chem, Integrated Therapeutics: Infectious Diseases I

PHRM 546 - Med Chem, Integrated Therapeutics: Gastroenterology

PHRM 537 - Med Chem, Integrated Therapeutics: Cardiology

PHRM 534 - Med Chem, Integrated Therapeutics: Dermatology & Rheumatology

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**Graduate Courses (Currently taught)**

PHS 612 - Advanced Principles of Drug Action  
PHS 702 - Research Methods

**Undergraduate Courses (taught in the past at University of Alberta)**

PHARM 301 - Principles of Drug Action and Disposition - Introduction to Medicinal Chemistry  
PHARM 307 - Medicinal Chemistry, Dermatology Module  
PHARM 357 - Medicinal Chemistry, Gastrointestinal Module  
PHARM 437 - Medicinal Chemistry, Bone and Joint Module  
PHARM 499 - Medicinal Chemistry, Women's and Men's Health Module  
PHARM 498 - Research and Directed Studies  
PHARM 341 - Pharmaceutical Analysis  
PHARM 367 - Medicinal Chemistry, Cardiology Module  
PHARM 417 - Medicinal Chemistry, Neurology Module  
IntD 410 - Interdisciplinary Health Team Development

**Graduate Courses (taught in the past at University of Alberta)**

PHARM 570 - Advanced Pharmaceutical Analysis (UV/Vis, IR, Raman, and NMR Spectroscopy)  
PHARM 573 - Analytical Techniques in Pharmaceutical Sciences  
PHARM 610 - Advanced Drug Delivery Systems (Peptides and Proteins for Drug Targeting)

**B. POSTDOC/STUDENT SUPERVISION****Postdoctoral Fellows**

Dr. Hanieh Ariani (03/2016- 09/2018)

Project: Engineering peptide-drug conjugates for targeting breast cancer cells

Dr. Amaresh Sahoo (09/2015- 01/2016)

Project: Peptide-based platforms for detection of bacteria

Dr. Rania Soudy (co-supervised) (01/2014- 05/2016)

Project: Peptide antagonists for Amylin receptor

Dr. Ramana Dangeti (co-supervised) (06/2013- 04/2016)

Project: Bacteriocins as alternatives to conventional antibiotics

Dr. Sarfuddin Azmi (03/2013- 01/2015)

Project: Engineering antimicrobial peptides for detecting pathogenic Gram-positive bacteria

Dr. Sahar Ahmed (09/2011- 08/2012)

Project: Development of peptide-based diagnostic assay for quantification of polyaromatic acids

Dr. Anu Mathews (co-supervised) (09/2009- 08/2010)

Project: Peptide-micelle engineering for the design of novel specific cancer targeting agents

**Graduate Students [n=22]****Current**

Ph.D. Elmira Ziaei  
 Ph.D. Azam Saghaeidehkordi  
 MSPS Phi-Phung Than

**Completed**

Ph.D. Hashem Etayash, 2017 (co-supervised, main supervisor: K. Kaur)  
 Ph.D. Hamed Kohan, 2013 (co-supervised, main supervisor: F. Jamali)  
 Ph.D. Rania Soudy, 2012  
 Ph.D. Dharmendra Raghuwanshi, 2012  
 Ph.D. Wael Soliman, 2011  
 Ph.D. Sahar Ahmed, 2010

MSPS Cassandra Dill, Aug 2020 (main supervisor: K. Kaur; co-supervisor: S. Yang)  
 MSPS Emad Althagafi, Aug 2018  
 MSPS Azam Saghaeidehkordi, Aug 2018  
 MSPS Yazeed Alanazi, Apr 2018  
 MSPS Elmira Ziaei, Dec 2017  
 MSPS Kim Tushar, Aug 2017

M.Sc. Yogita Raghuwanshi, 2015  
 M.Sc. Harpreet Dhingra, 2013 (co-supervised by K. Kaur and B. Singh)  
 M.Sc. Hashem Etayash, 2012  
 M.Sc. Minashree Singh, 2012 (co-supervised, main supervisor: S. Mitra)  
 M.Sc. Krishna Bodapati, 2011  
 M.Sc. Gagandeep Kharaud, 2010  
 M.Sc. Reem Beleid, 2008

**Other Students (Pharm.D. or Undergraduate Research Students)**

9 Students at Chapman University School of Pharmacy (2016-2019; Students enrolled as Capstone, Pharm.D. research or Student faculty independent research 491)

11 Students at Faculty of Pharmacy and Pharmaceutical Sciences, University of Alberta (2004-2014; Students enrolled as Summer Research Students)

**IV. SERVICE****A. STUDENT COMMITTEES****Examining Committee Member**

**2004-present** 51 exams (M.Sc. thesis defense or Ph.D. candidacy exam or Ph.D. thesis defense)

**Supervisory Committee Member**

- 2015-present** Supervisory committee member for 8 graduate (MSPS or Ph.D.) students at CUSP  
**2004-2015** Supervisory committee member for 11 students (M.Sc. or Ph.D.) at Univ. of Alberta

**B. COMMITTEES****At School of Pharmacy and University**

- 2016-2020 Chair, Faculty Review Committee CUSP  
 2016-2018 Chair, Science Committee, CUSP  
 2016-2017 Chair, Faculty Search Sub-Committee-Natural Products, BPS (CUSP)  
 2015-2016 Chair, Faculty Search Sub-Committee-Immunology, BPS (CUSP)
- 2015-present Member, Faculty Review Committee CUSP  
 2019-present Member, University Assessment Committee  
 2019-present Member, Graduate Program Research Committee, CUSP  
 2018-present Member, Faculty Grievance Board, Chapman University  
 2017-present Member, Strategic Planning Committee, CUSP  
 2017-present Member, Student Affairs Committee, CUSP  
 2016-2019 Member, Science Committee, CUSP  
 2017-2018 Member, Item Review Committee, CUSP  
 2015-2016 Member, Faculty Review Committee CUSP  
 2014-2017 Member, Assessment Committee, CUSP  
 (CUSP: Chapman University School of Pharmacy)

**C. OTHER**

- 2019-present American Peptide Society (APS) Website Committee  
 2018-present Peer Teaching Evaluator  
 2017-present Mentor for Junior Faculty  
 2014-present Active participation in ACPE accreditation

**D. VOLUNTEER AND PUBLIC SERVICE**

1. Judge for the "Irvine Unified School District's 38<sup>th</sup> Annual Science Fair" at the Northwood High School, Irvine, CA, USA, Feb 06, 2019.
2. Invited Presentation at the "21st Century Career Conference" organized by Irvine Unified School District (IUSD), The Beckman Center, Irvine, CA, USA, Dec 13, 2018.
3. Organized the first "Chapman University School of Pharmacy Research Day" as the chair of the CUSP Science Committee, May 04, 2018.
4. Volunteer at the Irvine Unified School District - Ask-A-Scientist/Engineer Night, Rancho San Joaquin Middle School, Irvine, CA, Aug 31, 2017.
5. Judge for the "Poster Presentation Competition" at the 25<sup>th</sup> American Peptide Symposium, Whistler, BC, Canada, June 17-22, 2017.

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6. Judge for the “Poster Presentation Competition” at the 2016 Irvine Unified School District Science Fair, Irvine High School, Irvine, USA, Feb 23, 2016.
  7. Wrote an article for Orange County Register “In Living Textbooks”, June 2015.
  8. Judge for the “PDF Poster Presentation Competition” at the 3<sup>rd</sup> Western Canadian Medicinal Chemistry Workshop, Saskatoon, SK, Canada, September 28-30, 2012.
  9. Organizer and Panel member at the Science and Technology Partnership (ISTP) Indo-Canadian Workshop “Joint Indo-Canadian Meeting on Development of Low-Cost Lab-on-a-chip Medical Devices for Health Monitoring” January 7-11, 2011, IIT Bombay, India.
  10. Judge for the “Graduate Student Oral Presentation Competition” at the 94<sup>th</sup> Canadian Chemistry Conference and Exhibition, Montreal, Quebec, Canada, June 5- 9, 2011.
  11. Judge for the student presentations (oral and poster) at the “Annual Faculty Research and Development Day” 2005-present.
  12. Medicinal Chemistry Laboratory Orientation: High School Students, Women in Scholarship, Engineering, Science and Technology (WISEST) Program (2010)
  13. Reviewer for British Columbia Innovation Scholars (2010)
  14. Reviewer for GSK/AFPC Student Paper Awards (2010, 2011)
  15. External Ph.D. Proposal Reviewer, School of Medicine, University of Alberta (2008)
  16. Supported Heritage Youth Researcher Summer (HYRS) Program by training a high school student (2005)