



## MANAV RACHNA UNIVERSITY, FARIDABAD

Sector 43, Aravalli Hills, Manav Rachna Campus Rd, Faridabad, Haryana 121004

### Dr. Pankaj Mehrotra

**Designation** : Assistant Professor, Department of Education and Humanities

**Qualifications** : Bachelor of Science (Honors) in Applied Zoology (Gold Medalist) - University of Delhi, India.

Master of Science in Integrative Genomics - Black Hills State University, United States of America.

Ph.D. in Medical Sciences - University of Aberdeen, Scotland, United Kingdom.

Science Education (Biology) - The University of Southern Mississippi, United States of America.

**Email** : [pankajmehrotra@mru.edu.in](mailto:pankajmehrotra@mru.edu.in)

**Experience** : 07 Years



**Research Interest** : Infectious Diseases, Molecular Microbiology, Biology Education

#### + Journal Publication Details:

Mehrotra, P. (2020). "Teaching, Learning and Assessment of International Baccalaureate Organization Biology Students" International Journal Of Advance Research And Innovative Ideas In Education Volume 6 Issue 3 2020 Page 1123-1126.

[http://ijariie.com/AdminUploadPdf/Teaching\\_Learning\\_and\\_Assessment\\_of\\_International\\_Baccalaureate\\_Organization\\_Biology\\_Students\\_ijariie12131\\_converted.pdf](http://ijariie.com/AdminUploadPdf/Teaching_Learning_and_Assessment_of_International_Baccalaureate_Organization_Biology_Students_ijariie12131_converted.pdf)

Mehrotra, P. (2019). **Active Engagement and Learning of Early College Students in Classroom and Laboratory.**

<http://ierj.in/journal/index.php/ierj/article/view/1907/1811>

Mehrotra, P. (2018). **Biology Education: Active learning exercises to engage high school and college students.**

<http://ierj.in/journal/index.php/ierj/article/view/1679/1598>

Mehrotra, P. (2016). **An attempt to understand and assess Bachelor of Science (Microbiology) Degree Program in United States of America.** *International Education and Research Journal*, 2(8).

<http://ierj.in/journal/index.php/ierj/article/view/415/392>

Mehrotra, P. (2016): **Comparative overview of Bachelor of Science (Microbiology) degree program structure across different countries** "International Journal of Advanced Education and Research". (Volume 1, Issue 8, Page 37-41)

<http://www.alleducationjournal.com/archives/2016/vol1/issue8/1-8-20>

Mehrotra, P. (2016): **Integrative Bioscience: An undergraduate course for Bachelor of Science degree program in United States of America.** *International Journal of Advance Research And Innovative Ideas In Education*. Vol-2 Issue-4 2016 , 1070-1076 [Integrative Bioscience: An undergraduate course for Bachelor of Science degree program in United States of America\\_ijariie3002.pdf](http://www.alleducationjournal.com/archives/2016/vol2/issue4/1-4-2016/Integrative_Bioscience:_An_undergraduate_course_for_Bachelor_of_Science_degree_program_in_United_States_of_America_ijariie3002.pdf)

Mehrotra, P. (2016). **Introduction of I-clicker assessment method.** *International Journal of Advance Research and Innovative Ideas in Education*, 2(4), 1024-1024

[http://ijariie.com/AdminUploadPdf/Introduction\\_of\\_I\\_clicker\\_assessment\\_method\\_ijariie3003.pdf](http://ijariie.com/AdminUploadPdf/Introduction_of_I_clicker_assessment_method_ijariie3003.pdf)

PerezNadalesE, AlmeidaNogueiraMF, BaldinC, CastanheiraS, ElGhalidM, GrundE, LengelerK, MarchegianiE, MehrotraPV, MorettiM, NaikV, Osés-RuizM, OskarssonT, SchäferK, WasserstromL, BrakhageAA, GowNA, KahmannR, LebrunMH, Perez-MartinJ, DiPietroA, TalbotNJ, ToquinV, WaltherA, WendlandJ **Fungal model systems and the elucidation of pathogenicity determinants.** *Fungal Genet Biol.* 2014 Jul 7. (doi : <http://dx.doi.org/10.1016/j.fgb.2014.06.011>)

**Immune recognition of *Candida albicans* influenced by defects in cell signal transduction pathways.** P. Mehrotra, R. A. Hall, J. Wagener and N. A. R. Gow. Blackwell Verlag GmbH Mycoses 55 (Suppl. 4), 95–338, *Mycoses*. 2012 Jun;55 Suppl 4:1-355. Research Abstracts of the 18th Congress of the International Society for Human and Animal Mycology. June 11-15, 2012. Berlin, Germany. P 219

**Expression of Two *Nitrosomonas europaea* Proteins, Hydroxylamine Oxidoreductase and NE0961 in *Escherichia coli*.**  
Author(s): Pankaj V. Mehrotra, Kelli Brunson, Alan Hooper, and David Bergmann Year: 2012 Volume: 91 Pages: 145-157.  
<http://www.sdaos.org/wp-content/uploads/pdfs/Vol%2091%202012/145-157.pdf>

**+ Conference Publications:**

**Expression of Two *Nitrosomonas europaea* Proteins, Hydroxylamine Oxidoreductase and NE0961, in *Escherichia coli* BL21 (De3).**

Author(s): **Pankaj Mehrotra** and David Bergmann Year: 2010 Volume: 89 Pages: 243 <http://www.sdaos.org/wp-content/uploads/pdfs/2010/243.pdf>

**Malarial Parasite Infection and MHC Variability in the White Winged Junco.**

Author(s): Jess Moser, **Pankaj Mehrotra**, Daniel Terveen, Christy Bergeon-Burns, Ellen Ketterson and Garth Spellman Year: 2010 Volume: 89 Pages: 290 <http://www.sdaos.org/wp-content/uploads/pdfs/2010/290.pdf>

**Differential Expression of *Candida albicans* Genes in Response to Silver Compounds.**

Author(s): Polly A. Hall, **Pankaj Mehrotra** and Cynthia Anderson. Year: 2010 Volume: 89 Pages: 242 <http://www.sdaos.org/wp-content/uploads/pdfs/2010/242.pdf>

**Mechanism of Resistance to Silver Compounds in Dermatophytic Fungi**

Author(s): Polly A. Hall, **Pankaj Mehrotra**, and Cynthia Anderson Year: 2009 , Volume: 88 Pages: 199 <http://www.sdaos.org/wp-content/uploads/pdfs/2009/199.pdf>

**Mehrotra P, Hall RA, Wagener J and Gow NAR. Immune recognition of *Candida albicans* influenced by defects in cell signal transduction pathways *F1000Research* 2016, 5:1972 (doi: [10.7490/f1000research.1112825.1](https://doi.org/10.7490/f1000research.1112825.1))**

**Mehrotra P. Yeast-hypha transition and immune recognition of *Candida albicans* affected by defects in the cell signal transduction pathways. *F1000Research* 2016, 5:1974 (doi: [10.7490/f1000research.1112827.1](https://doi.org/10.7490/f1000research.1112827.1))**

**+ Research Supervised:**

2019-2020 - International Baccalaureate Organization (IBO), International Baccalaureate Diploma Programme (IBDP) - Extended Essay (EE) research Projects in **Biochemistry, Environmental Science, Bio-informatics& Genomics, Plant Biology, Molecular Biology and Cell Biology , Plant Biology and Microbiology.**

2008-2010 - **Co-supervised** undergraduates funded by SD-INBRE at the Black Hills State University, South Dakota, United States of America (Jan-April, 2009, May-Aug, 2009).

**Mentorship** through Judging at Mississippi Region I Lower Science and Engineering Fair, USM (Apr, 8<sup>th</sup>, 2015).

**Mentorship** through Judging at Mississippi Science and Engineering State Fair, USM (Grades 7-12) (March, 24<sup>th</sup>, 2015).

**Mentorship** through Judging at Mississippi Region I Upper Science and Engineering Fair, USM (Grades 7-12) (Feb, 12<sup>th</sup>, 2015).

**Mentorship** through Judging at The Oak Groove Lower Elementary School, Hattiesburg, Mississippi (Feb, 5<sup>th</sup>, 2015).

**+ Book/Chapter Publications:**

**Mehrotra, Pankaj : Immunological and morphological characterization of *Candida albicans* and *Candida haemulonii* (ISNI: 0000 0004 5361 8429).**

**Mehrotra, Pankaj : Fundamentals of Biology – Top Hat Publication, Toronto, Canada ISBN Number - 978-1-77412-526-7**

**+ Professional Affiliation:**

**Ambassador** - Centre for Open Science, Virginia, United States of America

**Member** - *Marie Curie Fellows Association (MCFA)*, Brussels, Belgium

**Co-organizer** of Marie Curie Initial Training Network Workshop III “**Medical Mycology, IPR and Fellowships**”, Aberdeen, United Kingdom (July, 2012).

**+ Expert for various organizations:**

2019 - **MERLOT** - Biology Board Editorial Reviewer, California, United States of America

2021- **Lead Mentor** - The Society for the Advancement of Biology Education Research (SABER), California, United States of America

**+ Expert for WORKSHOPS/Sessions/FDP:**

**Teaching Assistantship** for a workshop organized by The Center for the Advancement of Mathematics and Science Education (CAMSE) for teaching lab experiments in life sciences to High and Middle school teachers (8-15 June, 2010).

**+Awards**

Teaching Award Certificate, Bard Early College at Houde Academy, Shenzhen, China( April, 2019)

Graduate Assistantship from The Centre for Science and Mathematics Education, The University of Southern Mississippi, Hattiesburg, United States of America.

Recipient of Marie Curie Initial Training Fellowship funded by Marie Curie Actions, Scotland, England, Spain, Germany and Denmark.

Biochemistry Travel Award, University of Aberdeen, Aberdeen, United Kingdom.

British Mycological Society, Small Grant Scheme, Manchester, United Kingdom.

Scientific Meeting Travel Grant, Society for General Microbiology, Reading, United Kingdom.

Second Best Graduate Poster Prize, American Society for Microbiologist, Branch Meeting, April 23-24 2010, Fort Collins, Colorado, United States of America.

Master of Science Integrative Genomics Fellowship financed by South Dakota Biomedical Research Internship (BRIN).

University Topper and Gold Medalist, University of Delhi for securing First Position at the Annual BSc Honors Examination, 2004-2007.