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EDUCATION

June 1998 B. Sc. (Chemistry) Aligarh Muslim University, India
June 2000 M. Sc. (Ag. Microbiology) Aligarh Muslim University, India
June 2006 Ph. D. (Microbiology) Aligarh Muslim University, India

ACADEMIC APPOINTMENTS

Aug 2014 - Assistant Professor
Department of Medicine, James Graham Brown Cancer
Center, University of Louisville, Louisville, KY

Aug 2012 - July 2014 Instructor
Department of Medicine, James Graham Brown Cancer
Center, University of Louisville, Louisville, KY

Aug 2012 - Consultant
3P Biotechnologies, Inc. Louisville, KY

Sep 2007- July 2012 Postdoctoral Associate
Cancer Chemoprevention Group, James Graham Brown
Cancer Center, University of Louisville, Louisville, KY 40202

July 2006 - August 2007 Lecturer
Department of Microbiology and Biotechnology, Integral
University, Lucknow, India

OTHER POSITIONS AND EMPLOYMENT

None

CERTIFICATION AND LICENSURE

N/A

PROFESSIONAL MEMBERSHIPS AND ACTIVITIES

2014- International Society for Extracellular Vesicles
2008- American Association for Cancer Research, USA
2003- International Society for Infectious Diseases, USA

HONORS AND AWARDS

2003-2006	Received Junior Research Fellowship from University Grant Commission, New Delhi, India.
2005	Travel Grant by Department of Science and Technology, New Delhi, India for the International meeting at Badajoz, Spain.
2010	Travel Grant by CGEMM, University of Louisville for the International conference.
2010	Travel Grant awarded by School of medicine, University of Louisville to attend the International conference.
2010	Travel Grant awarded by International Center, University of Louisville to attend the International conference.
2003	Best Poster Award in National Symposium on Emerging Trends in Indian Medicinal Plants, CSTUP, Lucknow. October 2003.
2012	Received honor by the Administration of University of Louisville at Faculty Excellence Award Ceremony-2012 for valuable contribution which results in the application of US patents.
2013	Received honor by the Administration of University of Louisville at Faculty Excellence Award Ceremony-2013.
2014	Travel Grant awarded by Brown Cancer Center, University of Louisville to attend the annual ISEV meeting (Rotterdam, The Netherlands).
2015	Received honor by the Administration of University of Louisville at Faculty Excellence Award Ceremony-2015.

Special recognition

- One of my publications (**Aqil** et al., Nutrition and Cancer, 64: 428-438, 2012) has been featured in Nutrition Frontier, a quarterly publication of the Nutritional Science Research Group (NSRG), National Cancer Institute (NCI) and National Institute of Health (NIH). This is one of only two articles selected by NSRG program staff based on scientific merit, innovation, and potential public health impact.
- Another article on anthocyanidins and lung cancer (Kausar H, Jeyabalan J, **Aqil F**, et al., Cancer Letters, 325: 54-62, 2012) has been featured in the Global Medical Discovery Series as it is identified as being of special interest to the drug development. GMD is viewed almost 365,000 times per month by academic and industrial R&D personnel.
- Recent article on Milk derived exosomes (Munagala, R., Aqil, F., Jeyabalan J. and Gupta, R.C. Bovine milk-derived exosomes for drug delivery. 371: 48-61, 2016.) has been featured in Atlas of Science, Feb 2016.

COMMITTEE ASSIGNMENTS AND ADMINISTRATIVE SERVICES

None

EDUCATIONAL ACTIVITIES

(i) Teaching

I have been involved in teaching and research and have served as the in-charge of Department of Microbiology and Biotechnology, Integral University, Lucknow, India from July 2006 to August 2007.

Courses taught: General Microbiology, Environmental biology and Biotechnology, Agricultural microbiology, Microbial metabolism and Molecular biology.

Number of lectures: 4-6 per week.

Number of students: 30

Doctoral students mentored: None

(ii) Mentoring Ph.D./High School, Undergraduate/graduate students & clinical fellow

Al-Hassan Kyakulaga- Graduate (PhD) student August 2014 – current
Providing training in chemoprevention of Lung cancer by Withaferin A. His work involve cell culture and animal xenograft studies to assess the tumor growth of various lung cancer cells and its prevention and mechanism.

Akash Gupta- Undergraduate student June 2009 – Aug 2009
March 2010 – Dec 2010

Provided training for the isolation, characterization and activity determination of anthocyanins from Indian blackberry "*Jamun*".

The work has been presented in various regional and national meetings

- Awarded- II prize in Research Louisville- 2009
- Awarded prestigious "**Thomas J. Bardos Science Education Awards**" for Undergraduate Students by American Association of Cancer Research.
- Awarded- **I prize** in **AACR 2011** in undergraduate category presentation.

Samir-Yitzhak Gadre- High School student June 2010 – Aug 2010
June 2011 – Aug 2011

Provided training in the area of drug delivery specifically on the preparation and *in vitro* release of chemopreventive agents by low mol wt. coated polymeric implants

The work has already been presented in various regional meetings

- Awarded- II prize in Research Louisville- 2011
- Awarded- III prize in Louisville metro school science competition
- Selected for the State level poster presentation
- Selected for the presentation in the Annual meeting of American Association of Cancer Research, **AACR-2012**, Chicago (Abst. # 2883).

Rachel Jennifer Siow - Undergraduate student June 2012 – Aug 2011

Provided training in the area of drug delivery on the preparation and *in vitro-in vivo* release of chemopreventive agents by low mol. wt. coated polymeric implants
The work has already been presented in regional meetings

- Fourth place in Research Louisville - 2012

Diogo Torres – Clinical fellow June 2013 – Feb 2015

Provided training in ovarian cancer related to cell culture and animal xenograft studies. The animal experiment to assess the tumor growth of various ovarian cancer cells (sensitive and resistant) is in progress.

CLINICAL ACTIVITIES - None

GRANTS AND CONTRACTS

Current grants

Sub Contract- Worcester Polytechnic Institute, Worcester, MA 8/18 – 8/20

Title: The Nano-CTC Chip

Role: Co-I

Sub Contract- 3P Biotechnologies, Inc., Louisville, KY 7/18 – 7/20

Title: Effect of exosome formulation on lung and breast cancer

Role: PI

DOD Breast Cancer Res Program Breakthrough Award R. Gupta (PI) 7/14 - 8/18

Title: "Prevention and Treatment of Breast Cancer by Blueberry Anthos"

Role: KEY PERSONNEL

Pending Grants

National Institute of Health – R01

Title: Exosomal delivery of celastrol for lung cancer

Role: PI

National Institute of Health – R21

Title: Targeted delivery of celastrol for lung cancer

Role: PI

National Institute of Health – R01 PI-Ramesh Gupta

Title: nano-Anthos for Prevention and Treatment of Breast Cancer

Role: Co-I

National Institute of Health – R01 PI-Ramesh Gupta

Title: Prevention and Treatment of lung cancer by Berry Anthos

Role: Co-I

National Institute of Health – R01 PI-Ramesh Gupta
Title: Novel Adjuvant therapy for Breast Cancer
Role: Senior associate

National Institutes of Health
Title: Exosomal Drug Delivery in Cancer Therapy.
Role: Co-PI

STTR Phase I (NIH)
Title: New Technology for Isolation of Anthocyanidins and Efficacy against Cancers.
Effort: 10%
Role: Co-PI

Previous grants

Exosomal Drug Formulation; R41/R42- PA-13235; 9/14 - 8/16
Role: KEY PERSONNEL
This was a sub award from STTR Phase I grant.

NCI CA-125152 R. Gupta (PI) 07/07-05/14
Title: Breast Cancer Chemoprevention Potential of Common Spices”
Effort: 25%
The major focus of this project is to identify efficacious spices(s) belonging to the Apiaceae family to prevent estrogen-mediated breast cancer in the rat model and determine the pathway(s) by the inhibition occurs.
Role: KEY PERSONNEL

NIH NCI CA-118114 R. Gupta (PI) 04/07– 03/12
Title: “Breast Cancer Chemoprevention Strategies”
Effort: 20%
Contact: Renee Carruthers, NIH National Cancer Institute
Role: KEY PERSONNEL

PATENTS:

University of Louisville Research Foundation filed the following pending patent applications to protect the valuable technology described in ULRF Research Disclosure, ref. #08046, entitled, *Methods and Compositions for the Controlled Delivery of Phytochemical Agents* (“ULRF Technology”): Inventors – R.C. Gupta, M.V. Vadhanam and F. Aqil

- United States Provisional Patent Application ser. no. 61/035,153; filed March 10, 2008
- United States Provisional Patent Application ser. no. 61/096,108; filed Sept. 11, 2008
- United States Patent 8,142,806, issued March 27, 2012
- United States Patent Application, ser. no. 13/429,601; filing date March 26, 2012;
Publication # US20120231079 A1 and US8858995 B2.
- Patent Cooperation Treaty (PCT) Application PCT/US09/36663; filed March 10, 2009
- European Patent Application # 09719335.3; filed October 4, 2010

- Australian Patent Application # 2009223653; filed October 4, 2010;
- Canadian Patent Application # 2,755,014; filed September 8, 2011; and
- U.S. Continuation-in-Part Patent Application, ser. no. 13/429,601; filed March 26, 2013.

International Patent (PCT) submitted: Gupta, R.C., Munagala, R., **Aqil, F.**, Jeyabalan, J. Milk-derived microvesicle compositions and related methods. U. S. Provisional Patent Application Serial No. 61/769,551; ULRF Ref. No. 13027; C/M Code: UN024/13027

US Patent issued: Gupta, R.C., Munagala, R., **Aqil, F.**, Jeyabalan, J. Milk-derived microvesicle compositions and related methods. U.S. Patent Application Serial No. 14770634; EFS ID: 23318374; C/M Code: 5376; International Application Number: PCT/US2014/018601.

Provisional Utility Patent: Agrawal, A.A., Aqil, F., Jeyabalan, J., Munagala, R., Spencer, W.A., Gupta, R.C. Milk-derived exosomes for oral delivery of paclitaxel. Patent Application Number: 62460714, Feb 17, 2017.

U.S. Patent Provisional Application Serial No. 62/568,026: Aqil, F., Jeyabalan, J., Munagala, R., and Gupta, R.C. Microvesicle compositions and related methods for providing enhanced bioavailability and efficacy.
ULRF Ref: 18025-01, Our Ref: UN024/18025; Oct 04, 2017

U.S. Patent Provisional Application Serial No. 62/567,911. Aqil, F., Jeyabalan, J., Munagala, R., and Gupta, R.C. Microvesicle compositions and methods for treatment of ovarian cancer.
ULRF Ref: 18023-01 Our Ref: UN024/18023; Oct 04, 2017

EDITORIAL WORK

Journal Editorial Boards -

Associate Editor – International Research Journal of Microbiology (Since 2011).

Editorial Board Member

- Journal of Medicine and Radiography
- Journal of Microscopic Creatures.
- EC Bacteriology and Virology Research,
- BAOJ Clinical trials.
- Journal of Clinical Breast Cancer Research
- International Journal of Cancer Biology
- Biomedical Research and Reviews (BRR)
- Journal of Cancer Open Access
- Annals of Thoracic Oncology Research
- International Journal of Scientific Research in Environmental Science and Toxicology
- SciFed Virology Research Journal

Peer reviewer

Scientific reports, Phytomedicine, Journal of Agricultural and Food Chemistry, Annals of Clinical Microbiology and Antimicrobials, Food and Chemical Toxicology, Molecules,

Fitoterapia, Bioresource Technology, Hazardous Material, Journal of Basic Microbiology, Food Research International, African Journal of Biotechnology, Journal of Environmental Biology, Pakistan Journal of Scientific and Industrial Research, Journal of Medicinal Plant Research, Industrial Crops and Products, BMC Complementary and Alternative Medicine, Annals of Saudi Medicine, International Research Journal of Pharmacy and Pharmacology, Journal of Microbiology and Antimicrobials, African Journal of Microbiology Research, The Journal of Toxicological Sciences, CLEAN - Soil Air Water, Letters in Applied Microbiology, LWT - Food Science and Technology, Cancer Letters.

ABSTRACTS AND PRESENTATIONS

Oral Presentations/invited talks: National/International Meetings

1. Berry Anthos for the Management of various Cancers. Invited Talk in Berry Health Benefits Symposium, March 28–30, 2017, Pismo Beach, California, USA.
2. Cancer Prevention and Therapeutic Efficacy of Berry Bioactives in Pre-clinical Studies. Invited talk, Berry Health Benefits Symposium, Oct 13–15, 2015, Madison, Wisconsin, USA.
3. Breast cancer chemopreventive potential of ‘jamun’, the Indian blackberry. Paper presented in DDNPTM November 2010, NIPER, S.A.S. Nagar, India.
4. Potent chemoprotective activity of Apiaceae spices. Presented in NCI Translational Science Meeting. November 5-7, 2009. Vienna, VA. USA.
5. Novel activity of certain bioactive medicinal plant extracts against multiple drug resistant bacteria. Presented in 10th International Conference of ISCB on Drug discovery: Perspective and Challenges. February 24-25, 2006, CDRI, Lucknow.
6. Anti-MRSA activity of certain Indian medicinal plants. National Symposium on Emerging Trends in Indian Medicinal Plants. CSTUP, Lucknow. Oct 10-12, 2003.
7. Extraction and determination of antimicrobial activity of *Bryophyllum pinnatum* Kurz. Herbo-2002, Haryana, October 17-19, 2002

Oral Presentations: Local/Regional Meetings

None

Poster Presentations: National/International Meetings

1. **Aqil, F.**, Srivastava PK and Ahmad I (2002). *Cichorium intybus* L. (Chicory): A potential plant for antimicrobial herbal drug. 4th Indian Agricultural Scientist and Farmer's Congress, Meerut, India Feb 16-17, 2002, p. 34.

2. **Aqil, F.**, Farooq S. and Ahmad I. (2002). Pot cultivation, extraction and determination of antimicrobial activity of *Bryophyllum pinnatum* Kurz. Herbo-2002, Haryana, October 17-19, 2002
3. Ahmad I. and **Aqil, F.** (2003). Anti-MRSA activity of certain Indian medicinal plants. National Symposium on Emerging Trends in Indian Medicinal Plants. CSTUP, Lucknow. October 10-12, 2003.
4. Ahmad I. and **Aqil, F.** (2003) Broad-spectrum antibacterial and antifungal activities and potency of crude alcoholic extract and fractions of *Delonix regia* flowers. 2nd World Congress on Biotechnological Developments of Herbal Medicine. NBRI, Lucknow. February 20-22, 2003.
5. **Aqil, F.**, Mahmood Z. and Ahmad I. (2003). Antioxidant Properties of Extracts and Fractions of Chicory, Tulsi and Gulmohar. 2nd World congress on biotechnological developments of herbal medicine. NBRI, Lucknow. February 20-22, 2003.
6. **Aqil, F.** and Ahmad I. (2004). Antibacterial activity of certain Indian medicinal plants against methicillin resistant *Staphylococcus aureus* (MRSA). IUPAC International conference on Biodiversity and Natural Products: Chemistry and Medical Applications, January 26-31, 2004, New Delhi (India). P-30
7. Siddiqui, Z.N., Ahmad, J., Ahmad, I., **Aqil, F.** and Khuwaja G. (2004). Broad-spectrum antimicrobial activity of lignan isolated from *Piper cubeba*. International Conference on Recent Advances in Biomedical and Therapeutic Sciences, Bundelkhand University Jhansi, January 13-15, 2004.p, 249
8. Ahmad, I., **Aqil, F.** and Alam MZ (2004) Distribution of β -lactamases among environmental isolates of enteric bacteria: Substrate specificity and transferable nature. 45th Annual Conference of Association of Microbiologists of India, National Dairy Research Institute, Karnal. November 23-25, 2004(MD-MAI-25), p.109.
9. **Aqil, F.** and Ahmad, I. (2005) Targeted screening of traditionally used Indian medicinal plants against problematic groups of multi-drug resistant bacteria. 1st International Conference on Environmental, Industrial and Applied Microbiology "BioMicroWorld-2005" March 15-18th 2005, Badajoz, Spain.
10. Ahmad, I., Zahin, M. and **Aqil, F.** (2006). Novel activity of certain bioactive medicinal plant extracts against multiple drug resistant bacteria. 10th International Conference of ISCB on Drug discovery: Perspective and Challenges from February 24-25, 2006, CDRI, Lucknow, India.
11. **Aqil, F.**, Zahin, M. and Ahmad, I. (2007) Multiple bioactivities of *Punica granatum* L. (Anar) extracts with special reference to antimutagenicity. International Symposium on Genomic Instability and Cancer. July 22-26, 2007. Kashmir, India.

12. Zahin, M., **Aqil, F.**, and Ahmad, I. (2007). Mutagenic, antimutagenic and antioxidant properties of certain traditionally used Indian medicinal plants. International Symposium on Genomic Instability and Cancer. July 22-26, 2007. Kashmir, India.
13. Vadhanam, M., Ravoori, S., **Aqil, F.** and Gupta RC. (2008) Ellagic acid administered by a novel, sustained drug-delivery system inhibits estrogen-induced mammary carcinogenicity. Proc Am Assoc Cancer Res. Vol 49: Abst # 3835.
14. Gupta, R.C., Bansal, S.S., **Aqil, F.**, Jeyabalan, J., Cao, P., Russell, G., Ravoori, S. and Vadhanam, M.V. (2009). Sustained Delivery of Chemopreventive Agents by Polymeric Implants: An effective novel concept. 61st Indian Pharmaceutical Congress, December 11-13, 2009, Ahmedabad, India.
15. Bansal, S.S., **Aqil, F.**, Vadhanam, M.V. and Gupta, R.C. (2009). Bioavailability and *in vivo* efficacy of curcumin by a controlled release implantable drug delivery system. 36th Annual Meeting & Exposition of the Controlled Release Society (CRS), July 18 - 22, 2009 at the Bella Center, Copenhagen, Denmark.
16. Ravoori, S., Kausar, H., **Aqil, F.**, and Gupta, R.C. (2009). Preventive effects of berries on breast cancer development by reducing proliferation and modulating Cyclin D1 in ACI rats. Brown Cancer Center Annual retreat. University of Louisville, Louisville. Nov 5, 2009.
17. Gupta, R.C., Jeyabalan, J., **Aqil, F.**, Vadhanam, M.V., Schultz, D. and Ravoori S. (2009) Potent Chemoprotective Activity of Apiaceae Spices. NCI Translational Science Meeting. Nov 5-7, 2009. Vienna, VA. USA
18. **Aqil, F.**, Jeyabalan, J, Ravoori S, Vadhanam, M.V., Schultz, D., and Gupta, R.C. (2009). Spices of the apiaceae family are protective against estrogen-mediated effects in the rat mammary tumor model. Proc Am Assoc Cancer Res. Vol 50: Abst # 943.
19. Ravoori, S., **Aqil, F.**, and Gupta, R.C. (2009) Prevention of breast cancers in rat model by berries and potential mechanisms. Proc Am Assoc Cancer Res. Vol 50: Abst # 931.
20. Gupta, R.C., Bansal, S.S., **Aqil, F.**, Cao, P., Jeyabalan, J., Russell, G.K., Ravoori, S., and Vadhanam, M.V. (2009). A Novel Concept in Delivering Chemopreventive Compounds. Proc Am Assoc Cancer Res. Vol 50: Abst # 944.
21. Gupta, R.C., Bansal, SS., **Aqil, F.**, Cao, P., Jeyabalan, J., Russell, G., Kausar, H., Munagala, R., Ravoori, S. and Vadhanam, M.V. (2010) Continuous ("24/7") systemic delivery of chemopreventive agents by polymeric implants – a novel concept. DDNPTM November 2010, NIPER, S.A.S. Nagar, INDIA

22. Gupta, R.C., Arif, JM., **Aqil, F.**, Jeyabalan, J., Vadhanam, MV, Lehmler, H. and Robertson, LW. (2010) Novel DNA adducts detected in rat liver following treatment with PCB38, PCB77 and PCB153. International PCB Workshop 2010” (May 30 – June 2), Visby, Sweden.
23. **Aqil, F.**, Jeyabalan, J., Munagala, R., Ravoori, S., Vadhanam, M.V. and Gupta, R.C. (2010). Chemoprevention of rat mammary carcinogenesis by Apiaceae spices: potential mechanisms. Proc Am Assoc Cancer Res. Vol 51: Abst # 1879.
24. **Aqil, F.**, Jeyabalan, J., Gupta, A., Sharma R.J., Sidana, J., Singh, I.P. and Gupta, R.C. (2010). Chemopreventive potential of ‘jamun’ (Indian blackberry) against estrogen-mediated mammary carcinogenesis. Proc Am Assoc Cancer Res. Vol 51: Abst # 5688.
25. Munagala, R., **Aqil, F.**, Jeyabalan, J., Vadhanam, M.V., and Gupta, R.C. (2010). Increased anti-tumor activity by novel systemic delivery and molecular targets of Tanshinone II A. Proc Am Assoc Cancer Res. Vol 51: Abst # 5690.
26. Vadhanam, M.V., **Aqil, F.**, Bansal, S.S., Cao, P., Jeyabalan, J. and Gupta, R.C. (2010). Sustained Delivery of Chemopreventive Agents by Polymeric Implants: An effective novel concept. Proc Am Assoc Cancer Res. Vol 51: Abst # 5673.
27. Bansal, S.S., Kausar, H., **Aqil, F.**, Vadhanam, M.V. and Gupta, R.C. (2010). Polymeric Implants Enhance Bioavailability of Curcumin by Providing a Continuous (“24/7”) Delivery System. Proc Am Assoc Cancer Res. Vol 51: Abst # 1880.
28. Kausar, H., Jeyabalan, J., **Aqil, F.**, Chabba, D., Sidana, J., Singh, I.P. and Gupta, R.C. (2010). Synergistic anti-cancer activities of berry anthocyanidins on human lung cancer cells. Proc Am Assoc Cancer Res. Vol 51: Abst # 1884.
29. Ravoori, S., Kausar, H., **Aqil, F.**, and Gupta, R.C. (2010). Distinct molecular targets of blueberry and black raspberry in breast cancer prevention. Proc Am Assoc Cancer Res. Vol 51: Abst # 1887.
30. Kausar, H., Jeyabalan, J., **Aqil, F.**, Chabba, D., Sidana, J., Singh, I.P. and Gupta, R.C. (2011). Berry anthocyanidins synergistically suppresses non-small-cell lung cancer cell growth and metastasis and enhances sensitivity to the chemotherapeutic drug paclitaxel. 14th World Conference on Lung Cancer, July 3-7, 2011, Amsterdam. Journal of Thoracic Oncology, 6(6): S930-S931.
31. **Aqil, F.**, Munagala, R., Jeyabalan, J., Vadhanam, M.V. and Gupta, R.C. (2011). Enhanced bioactivity of punicalagins by polymeric implants against benzo[a]pyrene-induced DNA adducts *in vivo*. Proc Am Assoc Cancer Res. Vol 52: Abst # 3711.
32. **Aqil, F.**, Jeyabalan, J., Kausar, H., Bansal, S.S., Russell, G.K., Singh, I.P., Vadhanam, M.V., Ravoori, S., and Gupta, R.C. (2011). Sustained-release, multi-

- layer polymeric implants for heat-labile compounds. Proc Am Assoc Cancer Res. Vol 52: Abst # 4631.
33. Munagala, R., Vadhanam, M., Kausar, H., Bansal, S.S., **Aqil, F.**, Jeyabalan, J., Ravoori, S., and Gupta, R.C. (2011). MicroRNA 'signature' during estrogen-mediated mammary carcinogenesis. Proc Am Assoc Cancer Res. Vol 52: Abst # 155.
 34. Vadhanam, M., **Aqil, F.**, Jeyabalan, J., Ravoori, S., and Gupta, R.C. (2011). Bioavailability of ellagic acid/ellagitannins from black raspberry and pomegranate. Proc Am Assoc Cancer Res. Vol 52: Abst # 4603.
 35. Jeyabalan, J., **Aqil, F.**, Ravoori, S., Vadhanam, M. and Gupta, R.C. (2011). Steady DNA adduct accumulation by dibenzo[a,l]pyrene implants. Proc Am Assoc Cancer Res. Vol 52: Abst # 5557.
 36. Gupta, R.C., Jeyabalan, J., Kausar, H., Bansal, S.S., **Aqil, F.**, Vadhanam, M. and Ravoori, S. (2011). Chemopreventive and chemotherapeutic potential of blueberry and black raspberry against lung cancer using mouse models. Proc Am Assoc Cancer Res. Vol 52: Abst # 4597.
 37. Gupta, A., **Aqil, F.**, Kausar, H., Munagala, R., Jeyabalan, J., Sharma, R. Singh, I.P., Gupta, R.C. (2011). Chemopreventive activities of the dark-color fruit 'jamun', the Indian blackberry. Proc Am Assoc Cancer Res. Vol 52: Abst # 4619 (**Awarded 1st Prize**).
 38. Bansal, SS., Kausar, H., Vadhanam, M., **Aqil, F.**, Jeyabalan, J., Rai, SN., Ravoori, S., and Gupta, R.C. (2011). Curcumin implants, not curcumin diet inhibits estrogen induced-mammary carcinogenesis. Proc Am Assoc Cancer Res. Vol 52: Abst # 1863.
 39. Gupta, R.C., Kausar, H., Jeyabalan, J., and **Aqil, F.** (2011). Blueberry diet and blueberry bioactives inhibit lung cancer and enhance the activity of paclitaxel. Proc. of 50th Anniversary meeting of Phytochemical Society of North America. Dec 10-15, Kohala Coast, Hawai'i. Pharmaceutical Biol, 50(5): 630-631.
 40. **Aqil, F.**, Jeyabalan, J., Munagala, R., Ravoori, S., Vadhanam, M.V. and Gupta, R.C. (2012). Prevention of breast cancer by spices: Involvement of miRNAs and other molecular targets. Proc Am Assoc Cancer Res. Vol 53: Abst # 12-A-5804-AACR.
 41. **Aqil, F.**, Jeyabalan, J., Munagala, R., Ravoori, S., Sharma, R., Sidana, J., Singh, I.P. and Gupta, R.C. (2012). Breast cancer chemoprevention by 'Jamun', the Indian blackberry: Potential mechanisms. Proc Am Assoc Cancer Res. Vol 53: Abst # 5447.

42. Munagala, R., **Aqil, F.**, Gupta, R.C., Higashi, R. and Vadhanam, M.V. (2012). Pomegranate components modulate distinct pathways in prostate cancer cells. Proc Am Assoc Cancer Res. Vol 53: Abst # 12-A-3833-AACR.
43. Gadre, S., **Aqil, F.**, Jeyabalan, J., Sharma, R., Singh, I.P. and Gupta, R.C. (2012). Enhanced anti-tumor activity and bioavailability of chemopreventives by coated polymeric implants. Proc Am Assoc Cancer Res. Vol 53: Abst # 12-A-6219-AACR.
44. Gupta, R.C., Kausar, H., Jeyabalan, J., Sidana, J., Singh, I.P., Munagala, R., and Aqil, F. (2012). 'Color' Therapy – Berry anthocyanidins as potential drug for cancer treatment. Accepted for the presentation in DDNPTM November 2012, NIPER, S.A.S. Nagar, INDIA
45. Ahmad, I., Zahin, M., Husain, F.M. and **Aqil, F.** (2012). "Promising antioxidant and antimutagenic activity of benzene fraction of *Murraya koenigii*." Accepted for the presentation in The XXXII Annual Meeting of Society of Toxicology. Lucknow, India.
46. Gupta, R.C., **Aqil, F.**, Kausar, H., Jeyabalan, J., Vadhanam MV and Munagala, R. Therapeutic Potential of Blueberry Anthos ('Color' Therapy). International Berry Health Benefits Symposium, Charlotte, North Carolina, June 18-20, 2013.
47. Gupta, R., Aqil, F., Kausar, H., Jeyabalan, J., Vadhanam, M. and Munagala, R. (2013). Chemosensitizing Effects of Blueberry Anthocyanidins. 16th International Symposium, October 11-13, 2013, Crete, Greece).
48. **Aqil, F.**, Munagala, R., kausar, H. Jeyabalan, J., and Gupta, R.C. (2013). Enhanced activity of chemotherapeutic drugs by blueberry anthocyanidins and withaferin A against human lung cancer cells. Proc Am Assoc Cancer Res. Vol 54: Abst # 3678.
49. Jeyabalan, J., **Aqil, F.**, Munagala, R. and Gupta, R.C. (2013). Chemopreventive and therapeutic activity of high anthocyanin-content blueberry against estrogen-mediated breast cancer. Proc Am Assoc Cancer Res. Vol 54: Abst # 3705.
50. Munagala, R., **Aqil, F.** Taylor, D.D. and Gupta, R.C. (2013). Tumor-derived circulatory exosomal miRNAs as biomarkers of recurrent lung tumors. Proc Am Assoc Cancer Res. Vol 54: Abst # 1947.
51. **Aqil, F.**, Munagala, R., Jeyabalan, J., and Gupta, R.C. (2014). Milk derived exosomes: Scalable source of biologically active drug delivery nanoparticles. Proc Am Assoc Cancer Res. Vol 55: Abst # 14-A-3087-AACR.
52. Gupta, R.C., Munagala, R., **Aqil, F.**, and Jeyabalan, J. (2014). Novel Milk-derived exosomes for drug delivery. International Conference on Nanotechnology in the Service of Health, Environment and Society, NanoSciTech 2014, 13-15 February, 2014, Chandigarh, India.

53. Munagala, R., Jeyabalan, J., **Aqil, F.** and Gupta, R.C. (2014). Large-scale isolation and characterization of bovine milk- and colostrum-derived exosomes. ISEV-2014, Rotterdam, The Netherlands, April 30 - May 03.
54. **Aqil, F.**, Munagala, R., Jeyabalan, J., and Gupta, R.C. (2014). Biodistribution of milk-derived exosomes and exosomal-curcumin. ISEV-2014, Rotterdam, The Netherlands, April 30 - May 03.
55. Munagala, R., **Aqil, F.** and Gupta, R.C. (2014). Exosomal biomarkers for primary and recurrent lung cancer. ISEV-2014, Rotterdam, The Netherlands, April 30 - May 03.
56. Gupta, R.C., Jeyabalan, J., **Aqil, F.**, and Munagala, R. (2014). Milk-derived exosomes as a drug carrier. ISEV-2014, Rotterdam, The Netherlands, April 30 - May 03.
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62. R. Gupta, **F. Aqil**, J. Jeyabalan, A. Agrawal, M. Vadhanam and R. Munagala. Novel controlled-release technologies to enhance efficacy of polyphenols. 7th Int. Conf. on Polyphenols & Health, Oct 27-30, 2015, Congress Center Tours, France.

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Poster Presentations: Local/Regional Meetings

1. Munagala, R., **Aqil, F.**, Jeyabalan, J., Vadhanam, M.V., and Gupta, R.C. (2010). Increased anti-tumor activity by novel systemic delivery and molecular targets of Tanshinone II A. 9Th BCC Retreat, Louisville (**Awarded IInd Prize**).
2. Ravoori, S. Vadhanam, M.V. **Aqil, F.**, Jeyabalan, J. and Gupta, R.C. (2010). Distinct molecular targets of blueberry and black raspberry in breast cancer prevention. 9Th BCC Retreat, Louisville (**Awarded IIIrd Prize**).
3. Gadre, S., **Aqil, F.** and Gupta, R.C. (2011). Different Molecular Weight Polymers on the Release of Curcumin from Coated Implants. Research Louisville, Univ. of Louisville, Louisville, October 10-14, 2011 (**Awarded IInd Prize**).

4. Munagala, R., Vadhanam, M., Kausar, H., Bansal, S.S., **Aqil, F.**, Jeyabalan, J., Ravoori, S. and Gupta, R.C. (2011). MicroRNA 'signature' during estrogen-mediated mammary carcinogenesis and its reversal by ellagic acid intervention. 10Th BCC Retreat, Louisville. October 28, 2011. R.
5. Siow, R.J., Aqil, F., Munagala, R. and Gupta, R.C. (2012). Sustainable delivery of chemopreventives by biodegradable polymeric implants. Research Louisville, Univ. of Louisville, Louisville, September 18-21, 2012 (**Fourth Place**).
6. Kendall, Aqil, F., Gupta, R.C. and Munagala, R. (2014). Biomarker Significance of Exosomes in the Initiation and Progression of Breast Cancer. Research Louisville, Univ. of Louisville, Louisville, September 16-19, 2014 (**Second Place**).
7. Kyakulaga, A.H., **Aqil, F.** and Gupta R. Synergistic anticancer activity of withaferin A and paclitaxel on against human lung cancer cells. Research Louisville, Univ. of Louisville, Louisville, October 27-30, 2015.
8. Aqil, F., Jeyabalan, J., Munagala, R., Agrawal, A.K., Parker, L. and Gupta, R.C. Exosomes as nanocarriers for the treatment of ovarian cancer. Research Louisville, Univ. of Louisville, Louisville, October 11-14, 2016.
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10. Agrawal, A.K., Aqil, F., Jeyabalan, J., Munagala, R., Spencer, W.A., Beck, J., Gachuki, B.W., Alhakeem, S.S., Oben, K., Bondada, S. and Gupta R. Paclitaxel Loaded, Milk-Derived Exosomal Formulation Enhances Therapeutic Efficacy and Reduces Toxicity Following Oral Administration. Research Louisville, Univ. of Louisville, Louisville, October 11-14, 2016.

PUBLICATIONS

Citations: Over 3,750 citations of my research articles with h-index of 26 and i10-index of 49. Nine articles quoted over 100 times each (above 1500 times total).

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5. Ahmad, I. Khan, M.S.A. and **Aqil, F.** Plasmid encoded antibiotic resistance and β -lactamase production among enteric bacteria isolated from hospital wastewater. Indian Vet. Med. J, 29, 05, 2003.
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52. Zahin, M., Ahmad, I., and **Aqil, F**. Antioxidant and antimutagenic potential of *Psidium guajava*. *Drug and Chemical Toxicology*. 2016 (E-Pub). PMID: 27268266.
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1. **Aqil, F.**, Munagala, R., Jeyabalan, J. and Vadhanam, MV. Bioavailability of phytochemicals and its enhancement by drug-Delivery Systems. *Cancer Letters*. 334: 133-145, 2013. PMID: 23435377.
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4. Ahmad I, Zahin M, **Aqil, F.**, Hasan S, Khan MSA, Owais M. Bioactive compounds from *Punica granatum*, *Curcuma longa* and *Zingiber officinale* and their therapeutic potential. *Drugs of the Future*, 33(4): 329-346, 2008.

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1. **Aqil, F.**, Jeyabalan, J., Munagala, R., Ravoori, S., Vadhanam, MV. and Gupta RC. Prevention of breast cancer by *Cuminum cyminum*: Involvement of miRNA and other molecular targets. *Cancer Prevention Research*. 2017.
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11. Ahmad I, Khan, MSA., **Aqil, F.**, and Singh, M.: Microbial applications in agriculture and the environment: A broad perspective. In Ahmad, I., Ahmad, F., and Pitchel, J. (Eds.); *Microbes and Microbial Technology: Agricultural and environmental Applications*, Springer, 2010, pp. 1-26.
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1. Editor: Ahmad, I., **F. Aqil.**, and Owais M. (Eds): *Modern Phytomedicine: Turning Medicinal Plants into Drugs*. Publisher: Wiley-VCH, Germany, Hardcover, 404 pages ISBN-10: 3527315306; ISBN-13: 978-3527315307. (Cited by 51). **(Owned by more than 175 libraries across the world)**.
2. Editor: Ahmad, I., and **Aqil, F.** (Eds): *New Strategies combating bacterial infections*. Publisher: Wiley-Blackwell, Germany, Hardcover, 322 pages ISBN-10: 352732206; ISBN-13: 978-3527322060. (Cited by 7). **(Owned by more than 111 libraries across the world)**.
3. Editor: Ahmad, I., Owais M., Shahid, M., and **Aqil, F.** (Eds): *Combating Fungal Infections: Problems and Remedy*. Springer-Verlag GmbH, Germany, 2010, 505 pages. ISBN-10: 3642121721, ISBN-13: 978-3642121722. (Cited by 6). **(Owned by more than 322 libraries across the world)**.
4. Author: **Aqil, F.**, and Ahmad, I. *Biological activities of certain Indian medicinal plant: extracts with therapeutic potential*. LAP Lambert Academic Publishing, Germany, 2010, 256 pages. ISBN 978-3-8383-4069.

WORKSHOP/ TRAINING ATTENDED

1. Participated in a short term course on Biotechnology and Biochemical Engineering organized by NITTTTR, Chandigarh from 20. 11. 2006 to 24.11.2006.
2. CIMAP Training School on Advanced Instrumentation and Analytical Techniques for Natural Products (AIAT - 2005) from 6th- 11th June 2005 at CIMAP, Lucknow.
3. DBT funded workshop on "Bioinformatics tools in biological sciences" from March 09-10, 2004 at Interdisciplinary Biotechnology Unit, AMU, Aligarh.
4. Pfizer sponsored Investigator Training Program Workshop on principle of ICH-GCP. University of Louisville, Louisville, KY., March 30, 2012.