

Curriculum Vitae

Hani Al-Ahmad, Ph.D.

Associate Professor (Plant Biotechnology)

Department of Biology & Biotechnology

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Education:

2000-2004 Ph.D. in Plant Molecular Genetics. Department of Plant Sciences, Weizmann Institute of Science. Thesis subject: *Mitigating transgene flow from transgenic crops to wild and weedy relatives: a molecular ecology study.*

1993-1996 M.Sc. Biological Sciences (Microbiology), with highest honors, An-Najah National University, Nablus, Palestine. Thesis subject: *The epidemiology of Pseudomonas aeruginosa nosocomial infections in Rafedia Hospital, Nablus, West Bank.*

1993 B.Sc. Biological Sciences, with honors, An-Najah National University, Palestine.

Scientific Interests:

Plant Biotechnology: plant molecular genetics, in vitro plant regeneration & genetic transformation, plant-based bioenergy.

Research & Teaching Experience:

❖ **2005-Present: Associate Professor**, Department of Biology & Biotechnology, An-Najah National University, Nablus, Palestine.

Taught courses:

- 2005-present: Recombinant DNA Technology;
- 2005-present: Plant Cell & Tissue Culture;
- General Biology.
- Research Project.
- Plant Genetic Manipulation (Ph.D. course).

Post-Doctoral Research & International Scientific Collaboration:

❖ **November 2021, Summer 2022: Visiting Scientist (Strategies for regeneration and genetic transformation of woody species of economic and wildlife conservation interests).** Biological Mission of Galicia, Santiago de Compostela Headquarters, Spanish National Research Council (CSIC), Santiago de Compostela, Spain.

❖ **Summers 2007-2015: Visiting Scientist (Plant-based bioenergy).** Plant Biotechnology, Department of Plant Sciences, The University of Tennessee, Knoxville, USA, Plant Molecular Genetics Lab of Prof. C. Neal Stewart Jr.

- ❖ **2006: Post Doctoral Research Associate (Plant-based bioenergy).** Department of Plant Sciences, The University of Tennessee, Knoxville, USA, Plant Molecular Genetics Lab of Prof. C. Neal Stewart Jr.
- ❖ **2005: Post Doctoral Fellowship (Developing of transgenic biocontrol agents -"mycoherbicides"- for intractable weeds).** The Weizmann Institute of Science. Department of Plant Sciences, lab of Prof. Jonathan Gressel.
- ❖ **1996-1998:** Part-time instructor of "Microbiology" and "Genetics". An-Najah National University, Faculty of Agriculture, and The Community College.
- ❖ **1993-1995:** Teaching assistant. An-Najah National University, Department of Biological Sciences.

Awards and Scholarships:

- Summer 2019** Erasmus+ European Teaching Mobility Fund Program: Academic visit to the Public University of Navarra (upna), Pamplona, Navarra, Spain.
- 2011, 2012, 2014, 2018, 2020** Research Excellence Awards. An-Najah National University, Palestine.
- 2011** The Foundation of Hisham Hijjawi Award for Applied Sciences-Field of Industry and Energy. *"Biomaterials from Olive Industry Solid Wastes: Cellulose and Bioethanol"*. Amman-Jordan. 19th, December. (Jointly with Dr. Othman Hamed, Dept. of Chemistry, An-Najah National University).
- 2009** Travel scholarship by The British Council. Darwin's Living Legacy: An International Conference on Evolution and Society. November 14-16. Bibliotheca Alexandrina, Alexandrina, Egypt.
- 2002** Schwarz Memorial Graduate Scholarship Fund. Feinberg Graduate School, Weizmann Institute of Science. Special award to outstanding graduate students.

Research Grants:

- **Investigating Plant Biosynthesis of Short-chain Alkanes for Renewable Ideal Biofuels.** AgResearch Innovation Grants Program **2012**. The University of Tennessee. **\$US 100,000**. PI: C. Neal Stewart, Jr. CoPIs: Nicole Labbe, Blake Joyce, and Hani Al-Ahmad.
- **Strategies for regeneration and genetic transformation of woody species of economic and wildlife conservation interests.** CSIC Cooperation Program I-COOP+ **2020**, Spain. **24,000 €**. M^a Concepción Sánchez Fernández, Institute of Agrobiological Research (IIAG), Santiago de Compostela, Spain, and Hani Al-Ahmad An-Najah National University, Palestine.

Professional Service:

Manuscript reviewer: (journals reviewed, and the year):

- Brazilian Journal of Botany (Springer): 2023
- Forests (MDPI): 2018
- Plant Cell Reports-Springer: 2015

- Journal of Zhejiang University-SCIENCE B: 2013
- Forest Science: 2012
- Annals of Applied Biology: 2011
- African Journal of Agricultural Research: 2011
- Plant Science-Elsevier: 2007, 2010

PUBLICATIONS:

<https://scholar.google.com/citations?user=yO2lC1cAAAAJ>

Patents

US 7,612,255 B2: Gressel, J. and Al-Ahmad H. Transgenic plants for mitigating introgression of genetically engineered genetic traits. United States Patent. **Issued Nov. 3, 2009.** (<http://www.uspto.gov/>).

Peer-Reviewed Publications

1. Al-Ahmad, H. **2020.** In vitro decoated seed germination and seedling development for propagation of wild mandrake (*Mandragora autumnalis* Bertol.). ***Plants***. 9, 1339.
<https://doi.org/10.3390/plants9101339>
2. Al-Ahmad H. **2018.** Biotechnology for bioenergy dedicated trees: meeting future energy demands. ***Zeitschrift für Naturforschung C***. 73(1-2), 15-32.
3. Al-Ahmad H., Kania S.A., Trent D.J., and Stewart C.N. Jr. **2017.** Estimation of nuclear DNA contents of three economically important plant species by laser flow cytometry. ***An-Najah University Journal for Research-A (Natural Sciences)***. 31, 35-54.
4. Al-Ahmad H. **2015.** Differential response of leaf and stem explants to growth regulators and direct organogenesis of baby rubber plant (*Peperomia obtusifolia*). ***Adv. Life Sci. Health***. 2(1): 68-78.
5. Al-Ahmad H. **2014.** Naphthaleneacetic acid solely induced extensive hairy root development that precedes extensive shoot regeneration from stalk explants of cauliflower (*Brassica Oleracea* var. botrytis). ***J. Biotech. Bioeng.*** 1: 1-6.
6. Gressel, J. and Al-Ahmad H. **2012.** Transgenic mitigation of transgene dispersal by pollen and seed. In: M.J. Oliver, and Y. Li, eds. ***Plant Gene Containment***, Wiley-Blackwell. pp. 125-146. **(chapter in edited book).**
7. Joyce, B., H. Al-Ahmad, F. Chen., and C. N. Stewart, Jr., **2012.** Diesel trees. In: Chittaranjan Kole, Chandrasekhar P. Joshi and David R. Shonnard., eds. ***Handbook of Bioenergy Crop Plants***. CRC Press, Boca-Raton, pp. 619-629. **(chapter in edited book).**
8. Mazarei M., Al-Ahmad H., Rudis M.R., Joyce B.L., and Stewart C.N. Jr. **2011.** Switchgrass (*Panicum virgatum* L.) cell suspension cultures: Establishment, characterization, and application. ***Plant Science***. 181, 712-715.
<http://www.sciencedirect.com/science/article/pii/S0168945211000033>
9. Mazarei M., Liu W., Al-Ahmad H., Arelli PR., Pantalone VR., Stewart C.N. Jr. **2011.** Gene expression profiling of resistant and susceptible soybean lines infected with soybean cyst nematode. ***Theoretical and Applied Genetics***. 123 (7), 1193-1206.

10. Rose C.W., Millwood R.J., Moon H.S., Rao M.R., Halfhill M.D., Raymer P.L., Warwick S.I., Al-Ahmad H., Gressel J., and Stewart, C.N. Jr. **2009**. Genetic load and transgenic mitigating genes in transgenic *Brassica rapa* (field mustard) × *Brassica napus* (oilseed rape) hybrid populations. *BMC Biotechnology* 9:93. (14 pages). <http://www.biomedcentral.com/1472-6750/9/93/>
11. Chen F*, Al-Ahmad H.*, Joyce B., Zhao N., Köllner T.G., Degenhardt J., and Stewart C.N. Jr. **2009**. Within-plant distribution and emission of sesquiterpenes from *Copaifera officinalis*. *Plant Physiology and Biochemistry*. 47, 1017-1023. (*These authors contributed equally to this work).
12. Meir S., Larroche C., Al-Ahmad H., and Gressel, J. **2009**. Fungal transformation of *Colletotrichum coccodes* with bacterial oahA gene to suppress defences of *Abutilon theophrasti*. *Crop Protection*. 28, 749-755.
13. Meir S., Amsellem Z., Al-Ahmad H., Einat Safran E., and Gressel, J. **2009**. Transforming a NEP1 toxin gene into two *Fusarium* spp. to enhance mycoherbicide activity on *Orobanche* – failure and success. *Pest Management Science*. 65, 588-595.
14. Yuan, J.S., K.H. Tiller, H. Al-Ahmad, N.R. Stewart, C.N. Stewart, Jr. **2008**. Plants to power: bioenergy to fuel the future. *Trends in Plant Science* 13, 421-429.
15. Mazarei M., Al-Ahmad H., Rudis M.R., and Stewart, C.N.Jr., **2008**. Protoplast isolation and transient gene expression in switchgrass, *Panicum virgatum* L. *Biotechnology Journal* 3, 354-359.
16. Gressel J., Meir S., Herschkovitz Y., Al-Ahmad H., Babalola O. O., and Amsellem Z. **2007**. Transgenic biocontrol agents to overcome evolutionary barriers. In: Ejeta G., and Gressel J., eds. *Integrating new technologies for Striga control - towards ending the witch-hunt*. World Scientific, Singapore, pp. 313-323. (chapter in edited book).
17. Gressel J., Meir S., Herschkovitz Y., Al-Ahmad H., Greenspoon I., Olubukola B., and Amsellem Z. **2007**. Approaches to and successes in developing transgenically enhanced mycoherbicides. *Novel Biotechnologies for Biocontrol Agent Enhancement and Management*. Springer, pp. 297-305. (chapter in edited book).
18. Rotteveel T., Al-Ahmad H. and Gressel J. **2006**. Assessing and containing or mitigating biosafety risks of transgenic and non-transgenic phytoremediating plants. In: M. Macková, D.N. Dowling and T. Macek, eds. *Phytoremediation and Rhizoremediation, Focus on Biotechnology*, Vol. 6, Springer, Dordrecht, pp. 259-284. (chapter in edited book).
19. Al-Ahmad H., Dwyer J., Moloney M., and Gressel J. **2006**. Mitigation of establishment of *Brassica napus* transgenes in volunteers using a tandem construct containing a selectively unfit gene. *Plant Biotechnology Journal* 4, 7-21.
20. Al-Ahmad H., and Gressel J. **2006**. Mitigation using a tandem construct containing a selectively unfit gene precludes establishment of *Brassica napus* transgenes in hybrids and backcrosses with weedy *Brassica rapa*. *Plant Biotechnology Journal* 4, 23-33.
21. Al-Ahmad H., Galili S., and Gressel J. **2006**. Infertile interspecific sexual hybrids between transgenically mitigated *Nicotiana tabacum* and wild type *Nicotiana sylvestris* did not backcross to *N. sylvestris*. *Plant Science* 170 (5), 953-961.
22. Gressel J., and Al-Ahmad H. **2005**. Molecular containment and mitigation of genes within crops, prevention of gene establishment in volunteer offspring and feral strains. In: Gressel J., ed. *Crop Fertility and Volunteerism*. CRC Press, Boca-Raton, pp. 371-388. (chapter in edited book).

23. Al-Ahmad H., Galili S., and Gressel J. **2005**. Poor competitive fitness of transgenically mitigated tobacco in competition with the wild type in a replacement series. *Planta* 222, 372-385.
24. Al-Ahmad H., and Gressel J. **2005**. Transgene containment using cytokinin-reversible male sterility in constitutive, gibberellic acid-insensitive (Δgai) transgenic tobacco. *Journal of Plant Growth Regulation* 24, 19-27. (With accompanying journal cover).
25. Gressel J., and Al-Ahmad H. **2005**. Assessing and managing biological risks of plants used for bioremediation, including risks of transgene flow. *Zeitschrift für Naturforschung* 60c, 154-165.
26. Al-Ahmad H., Galili S., and Gressel J. **2004**. Tandem constructs to mitigate transgene persistence: tobacco as a model. *Molecular Ecology* 13 (3), 697-710.
27. Gressel J., and Al-Ahmad H. **2004**. Molecular solutions for increasing biosafety of transgenic plants. GMOs in Integrated Production. *IOBC/wprs Bulletin* 27 (3), 7-13.

International Book reviews

1. Al-Ahmad H. **2011**. Reviewed work of: “*Plant Biotechnology: The genetic manipulation of plants; second edition*. Adrian Slater, Nigle W. Scott, and Mark R. Fowler. 2008. 376 pp. Oxford University Press, Great Clarendon Street, Oxford ox2 6DP”. In: *The Quarterly Review of Biology*. Chicago Journals. The University of Chicago Press. 86 (1), pp. 57-58. DOI: 10.1086/658449. Stable URL: <http://www.jstor.org/stable/10.1086/658449>

International Scientific News Reports

1. Gressel J., and Al-Ahmad H. **2006**. Transgene flow control discussed. *CropBiotech update*. February 10th. Global Knowledge Center on Crop Biotechnology, International Service for the Acquisition of Agri-biotech Applications SEAsiaCenter (ISAAA), USA.
2. Gressel J., and Al-Ahmad H. **2006**. Mitigating transgene flow from crops. Risk assessment news. *Information Systems for Biotechnology (ISB) news report*. Virginia Tech USA, February, pp. 8-11.

International symposia:

- Darwin’s Living Legacy: An International Conference on Evolution and Society. **2009**. The British Council. November 14-16. Bibliotheca Alexandrina, Alexandrina, Egypt.

Proceedings Contributions of Invited Lectures ^L, and Posters ^P

1. ^PAl-Ahmad H., Shraim L., Yassen R., Odeh A., Vidal N., Sanchez C. **2022**. Using dormant axillary buds to improve organogenesis of Damask rose (*Rosa x damascena* Mill) *in vitro*. The 4th International Conference on “Plant Cell & Tissue Culture In Vitro IV”. July 4-5. Vienna International Science Conferences and Events Association (VISCEA), Vienna, Austria.
2. ^LAl-Ahmad H., Mazarei M., Rudis M.R., and Stewart, C.N. Jr., **2012**. Evaluation of transient gene expression and promoter transcriptional activity in protoplasts of switchgrass (*Panicum virgatum* L.). Third conference on biotechnology research and application in Palestine. Al-Quds University, Jerusalem, Palestine. October, 20th.

3. ^PB.L. Joyce, S. Liu, Y. Peng, H. Al-Ahmad, P. Ranjan, X. Chen, X. Sun, J. Johns, G. Wong, F. Chen, J.S. Yuan, and C.N. Stewart, Jr. **2012**. Investigating the novel sesquiterpene biosynthesis pathway in *Copaifera officinalis*, ‘the diesel tree,’ through next-generation *de novo* transcriptome sequencing and functional genomics. Plant and Animal Genome XX. January 14-18th, San Diego, CA, USA.
4. ^LAl-Ahmad H., Mazarei M., Rudis M.R., and Stewart, C.N. Jr., **2012**. Transient gene expression in protoplasts from switchgrass (*Panicum virgatum* L.): A potential bioenergy crop. The Scientific Conference for Agricultural Research (SCAR 2012). An-Najah National University, Nablus, Palestine. March, 25th.
5. ^LAl-Ahmad H., and Gressel J. **2010**. Decreasing crops transgene persistence in volunteers and related weedy species: Oilseed rape (*Brassica napus*) case study. The second conference on biotechnology research and applications in Palestine. An-Najah National University, Nablus, Palestine. September, 26-27th.
6. ^LAl-Ahmad H. **2010**. Tandem mitigation technology for reducing risks of transgene flow from genetically modified plants. Birzeit University, Ramallah, Palestine. Frontiers in molecular biology and biomedicine: EMBO workshop. March, 20-21th.
7. ^PJoyce, B.L, Feng C., Al-Ahmad H., Zhao N., Köllner T., Degenhardt J., and Stewart, Jr., C.N. November, **2009**. Introducing the ‘diesel trees’ (*Copaifera spp.*) as an alternative source of novel chemicals for biofuel. UT-China conference, Knoxville, TN, USA.
8. ^PMazarei, M., Al-Ahmad, H., Rudis, M.R., Joyce, B.L., and Stewart, Jr., C.N. Switchgrass cell suspension cultures: establishment, characterization, and application. November, **2009**. UT-China conference, Knoxville, TN, USA.
9. ^PMazarei, M., H. Al-Ahmad, W. Liu, P.R. Arelli, V.R. Pantalone, C. N. Stewart, Jr. **2009**. Gene expression profiling of a resistant and a susceptible soybean challenged with soybean cyst nematode. World Soybean Research Conference VIII, Beijing, China, August 10th-15th.
10. ^PStewart, Jr., C.N., Rose C. W., R. J. Millwood, H. S. Moon, M. R. Rao, M. D. Halfhill, P. L. Raymer, S. I. Warwick, H. Al-Ahmad, J. Gressel. **2009**. Genetic load and competition effects resulting from transgene flow from canola to field mustard: event specific introgression and transgenic mitigation. Weed Science Society of America Annual Meeting Orlando, Florida, USA, February 2009.
11. ^PMazarei, M., Al-Ahmad, H., Rudis, M.R., Stewart, Jr., C.N. **2008**. Protoplast isolation and transient gene expression in switchgrass, *Panicum virgatum* L. Bioenergy Science Center Retreat, Chattanooga, TN, USA, December 1st-3rd.
12. ^LStewart, C.N., Jr., M. Mazarei, D.A. Mann, M.R. Rudis, J. Burris, L.L.G. Abercrombie, H. Al-Ahmad. **2008**. Switchgrass biotechnology: tools for switchgrass improvement. China-US Workshop: Bioenergy Consequences for Global Environmental Change. Beijing, China, October 15th-18th. Program book p. 28.
13. ^PMazarei, M., Al-Ahmad, H., Rudis, M.R., Stewart, Jr., C.N. **2008**. Switchgrass protoplasts: isolation and transient gene expression. Bioenergy Science Center Annual Review, ORNL. USA. October 14th.

14. ^PMazarei, M, H Al-Ahmad, MR Rudis, CN Stewart, Jr. **2008**. Protoplast isolation and transient gene expression in switchgrass, *Panicum virgatum* L. Abstract Book, Plants and People--Mutual Dependence in the 21st Century: PhD Symposium of the Zürich-Basel Plant Science Center-- ETH Zurich June 6th ; pp. 33-34.
15. ^PAl-Ahmad H., Kania S A., Trent D J., and Stewart C N Jr. **2008**. Determination of bioenergy plant nuclear DNA content by flow cytometry. Plant and Animal Genomes XVI Abstracts P902, Town & Country Convention Center, San Diego, California, USA. January 12th-16th.
16. ^LMeir S., Herschkovitz Y., Larroche C., Al-Ahmad H., Amsellem Z., and Gressel J. **2008**. Unholy trinity of crop, attached parasitic weed, and transgenic biocontrol agents. In: Biology of Plant-Microbe Interactions CD, Volume 6: XIII International Congress on Molecular Plant-Microbe Interactions, 2007. *International Society for Molecular Plant-Microbe Interactions*. Lorito M., Woo S., and Scala F. eds. (Available on CD: PC and Mac Compatible; ISBN 978-0-9654625-5-6; Item No. 62556; <http://www.ismpminet.org/bookstore/VOL6.ASP>)
17. ^PAl-Ahmad, H, Kania, S.A., Trent, D.J. , Stewart Jr., C. N. **2007**. Determination of plant nuclear DNA content by flow cytometry. Abstract 2723. Plant Biology and Botany Joint Congress 2007, Chicago. USA, Julye 7th -11th.
18. ^LGressel J., Meir S., Herschkovitz Y., Al-Ahmad H., Olubukola B., and Amsellem Z. **2006**. Transgenic biocontrol agents to overcome evolutionary barriers. Integrating new technologies for *Striga* control: towards ending the witch-hunt, Addis Ababa, Ethiopia. November 5th-11th.
19. ^PAl-Ahmad H., and Gressel J. **2006**. Transgenic mitigation technology for reducing risks of transgene flow. In Vitro Biology Meeting, Minneapolis, Minnesota, USA. June 3rd-7th.
20. ^LAl-Ahmad H. **2006**. Mitigating risks of gene flow from transgenic crops into related weeds. Plant Sciences Department, University of Tennessee, Knoxville, TN, USA. March 27th.
21. ^LMeir S., Amsellem Z., Al-Ahmad H., Babalola O., Herschkovitz Y., and Gressel J. **2005**. Biotechnology and the Management of Weedy *Orobanchace*. COST Action 849, Parasitic Plant Management in Sustainable Agriculture. WG1+4 Workshop on Means for Limiting *Orobanche* Propagation and Dispersal in Agricultural Fields. Newe-Yaar Research center, Israel. December 4th-6th.
22. ^LGressel J., Al-Ahmad H., and Weissmann S. **2005**. Containing and mitigating transgene flow. BioThailand, Challenges in the 21st Century. Queen Sirikit National Convention Center, Bangkok, Thailand. November 2nd-5th.
23. ^LAmsellem Z., Meir S., Babalola O., Al-Ahmad H., Safran E., and Gressel J. **2005**. Transforming *NEP1* toxin gene and other genes into two *Fusarium* spp. to enhance mycoherbicidal activity against *Orobanche* – failure, success and progress. Joint Working Groups and MC meeting of COST Action 849, Biology, Control and Management. Reading University, UK. September 15th – 17th.
24. ^LGressel J., Al-Ahmad H., Amsellem Z., Babalola O., and Meir S. **2005**. Transgenic enhancement of biocontrol agents. American Phytopathology Society Meeting, Austin, USA. 30th July-3rd August. *Phytopathology* 95:S126. Publication no. P-2005-0040-SSA.
25. ^LAl-Ahmad H., and Gressel J. **2005**. Transgenic mitigation precludes the establishment of *Brassica napus* transgenes in volunteer and weedy *B. rapa*. Meeting of the Weed Science Society of America. Honolulu, Hawaii, U.S.A.

26. ^LAl-Ahmad H. **2005.** Hypervirulence genes for efficient Fungal Biocontrol of noxious and parasitic weeds. 2EBCAs Annual Meeting: "Enhancement and Exploitation of Soil Biocontrol Agents for Bio-Constraint Management in Crops". 6th EU Framework Programme. Priority 5 - Food Quality and Safety. January 11-15th. Magic Nirvana Club - Dead Sea, Israel.
27. ^LGressel J., and Al-Ahmad H. **2004.** Mitigating transgene flow – successes. 8th International Symposium on the Biosafety of Genetically Modified Organisms. September 26–30th. Montpellier, France. pp. 162-166. http://www.isbr.info/document/proceedings_montpellier2004.pdf
28. ^LGressel J., and Al-Ahmad H. **2004.** Assessing and managing biological risks of plants used for bioremediation, including risks of transgene flow. OECD-Workshop: Phytoremediation: Environmental and Molecular Biological Aspects. September 11. Matrahaza, Hungary.
29. ^LGressel J., and Al-Ahmad H. **2004.** Molecular solutions for increasing biosafety of transgenic plants. GMOs in Integrated Production. IOBC/wprs, Prague, Czech.
30. ^LGressel J., Al-Ahmad H., and Amsellem Z. **2003.** Mitigating transgene flow from crops to weeds; from biocontrol agents to crop pathogens. ESF-Workshop: New Science for Increasing Biosafety of GM Plants. March 8-12. Braunschweig, Germany.
31. ^LGressel J., and Al-Ahmad H. **2003.** Containment and mitigation of transgene flow from crops. BCPC International Congress-Crop Science and Technology. Glasgow, UK. pp. 1175-1180.
32. ^LAl-Ahmad H., and Gressel J. **2003.** Mitigation of transgene flow from crops to related weeds; tobacco as a model. Meeting of the Weed Science Society of America, volume 43. Jacksonville, Florida, U.S.A.
33. ^{L+P}Al-Ahmad H., and Gressel J. **2002.** Mitigation of transgene flow from crops to related weeds; tobacco as a model. The 7th International Symposium on the Biosafety of Genetically Modified Organisms. October 10-15. Beijing, China.
34. ^PAl-Ahmad H., and Gressel J. **2002.** Mitigation of transgene flow from crops to related weeds. The 10th International Congress of Plant Tissue Culture & Biotechnology. June 23-28. Orlando, Florida-U.S.A.
35. ^PAdwan K., Abu-Hasan N., and Al-Ahmad H. **1998.** The epidemiology of *Pseudomonas aeruginosa* infections in a neonatal unit. The second scientific day, March 15th. Faculty of Medicine, Al-Quds University, Jerusalem, Palestine.

My Websites:



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