



## Adnan Fayyad

**Date of birth:** 02/05/1982 | **Place of birth:** Nablus, Autonomous Palestinian Territories |

**Nationality:** Palestinian (Autonomous Palestinian Territories) | **Gender:** Male | **Phone number:**

(+972) 598196636 (Mobile) | **Email address:** [adnanf@najah.edu](mailto:adnanf@najah.edu) | **Email address:**

[adnan.fayyad.abedalkhader@tiho-hannover.de](mailto:adnan.fayyad.abedalkhader@tiho-hannover.de) | **Website:**

<https://staff.najah.edu/en/profiles/academic-staff/1415/> |

**Address:** Faculty of Veterinary Medicine & Agricultural Engineering, An-Najah National University, Nablus, Autonomous Palestinian Territories (Work)

**Address:** Institut für Pathologie, Stiftung Tierärztliche Hochschule - Hannover, Bünteweg 17, 30559, Hannover, Germany (Second Work Adress)

### WORK EXPERIENCE

**ASSOCIATE PROFESSOR VETERINARY PATHOLOGY – AN-NAJAH NATIONAL UNIVERSITY** – 11/09/2025 – Current – AUTONOMOUS PALESTINIAN TERRITORIES

**RESEARCH SCIENTIST – STIFTUNG TIERÄRZTLICHE HOCHSCHULE HANNOVER** – 01/08/2025 – Current – HANNOVER, GERMANY

**HEAD OF VETERINARY DEPARTMENT – AN-NAJAH NATIONAL UNIVERSITY** – 01/09/2024 – 31/08/2025 – NABLUS, AUTONOMOUS PALESTINIAN TERRITORIES

**RESEARCH SCIENTIST – STIFTUNG TIERÄRZTLICHE HOCHSCHULE HANNOVER** – 25/07/2023 – 15/08/2024 – HANNOVER, GERMANY

Investigation of spontaneous cases of diseases with suspected viral etiology

**HEAD OF VETERINARY DEPARTMENT – AN- NAJAH NATIONAL UNIVERSITY** – 01/09/2019 – 15/01/2022 – AUTONOMOUS PALESTINIAN TERRITORIES

**ASSISTANT PROFESSOR IN VETERINARY PATHOLOGY – AN-NAJAH NATIONAL UNIVERSITY** – 01/01/2017 – 10/09/2025 – AUTONOMOUS PALESTINIAN TERRITORIES

**INSTRUCTOR IN VETERINARY PATHOLOGY – AN-NAJAH NATIONAL UNIVERSITY** – 09/2008 – 07/2012 – AUTONOMOUS PALESTINIAN TERRITORIES

**RESEARCH AND TEACHING ASSISTANT – AN-NAJAH NATIONAL UNIVERSITY** – 08/2005 – 08/2006 – AUTONOMOUS PALESTINIAN TERRITORIES

## EDUCATION AND TRAINING

04/2013 – 12/2016 Hannover, Germany

**DOCTOR OF VETERINARY MEDICINE (DR. MED. VET.)** DAAD-Scholarship performed at Department of Veterinary Pathology-Tierärztliche Hochschule Hannover

**Thesis Title:** Comparative evaluation of the tumor microenvironment in spontaneous canine histiocytic sarcomas and a canine histiocytic sarcoma xenotransplantation model **submitted as doctoral thesis (supervisor: Prof. Dr. W. Baumgärtner)**

**Address** Tierärztliche Hochschule Hannover, Hannover, Germany | **National classification** Very Good (magna cum laude)

04/2013 – 12/2016 Hannover, Germany

**VETERINARY ANATOMIC PATHOLOGY RESIDENCY PROGRAMME WITH TRAINING TOWARDS THE EUROPEAN COLLEGE OF VETERINARY PATHOLOGY (ECVP) BOARD** Department of Veterinary Pathology at the Tierärztliche Hochschule Hannover

**Address** Tierärztliche Hochschule Hannover, Hannover, Germany

09/2006 – 08/2008 Irbid, Jordan

**MASTER OF VETERINARY PATHOLOGY** An-Najah Board of Trustees-Scholarship performed at Department of Pathology- JUST

**Thesis title:** A molecular and pathological diagnostic study of *Mycobacterium avium subsp. paratuberculosis* in small ruminants, cattle and camels in Jordan and its application in controlling the disease **submitted as master thesis (supervisor: Prof. Dr. N. Hailat)**

**Address** Jordan University of Science and Technology, Irbid, Jordan | **Final grade** Excellent

09/2000 – 06/2005 Nablus, Autonomous Palestinian Territories

**BACHELOR OF VETERINARY MEDICINE AND SURGERY** An-Najah National University

**Address** An-Najah National University, Nablus, Autonomous Palestinian Territories | **Final grade** Very Good

## LANGUAGE SKILLS

Mother tongue(s): **ARABIC**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2
GERMAN	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

## PUBLICATIONS

### Publications

- Hailat, N., **Fayyad, A.**, Ababneh, M., Hananeh, W., Rezig, F. E., & Jaradat, S. (2012). PCR-restriction endonuclease analysis of *Mycobacterium avium* subsp. *paratuberculosis* isolates from goats, sheep, and cattle in Jordan. *Comparative Clinical Pathology*, **21**(5), 755–760.
- Fayyad, A.**, Kummerfeld, M., Davina, I., Wohlsein, P., Beineke, A., Baumgärtner, W., & Puff, C. (2016). Fatal systemic *Toxoplasma gondii* infection in a red squirrel (*Sciurus vulgaris*), a Swinhoe's striped squirrel (*Tamiops swinhoei*), and a New World porcupine (*Erethizontidae* sp.). *Journal of Comparative Pathology*, **154**(2–3), 263–267.
- Fayyad, A.**, Lapp, S., Risha, E., Pfankuche, V. M., Rohn, K., Barthel, Y., Schaudien, D., Baumgärtner, W., & Puff, C. (2018). Matrix metalloproteinases expression in spontaneous canine histiocytic sarcomas and its xenograft model. *Veterinary Immunology and Immunopathology*, **198**, 54–64.

4. **Fayyad, A.**, Jalboush, N., Alzuheir, I., Abu Helal, B., & Manasrah, M. (2019). Detection of rabies virus-specific antibody in stray dogs in Palestine. *The Thai Journal of Veterinary Medicine*, **49**(3), 289–293.
5. **Fayyad, A.**, Alzuheir, I., & Jalboush, N. (2020). A molecular and pathological study of peste des petits ruminants virus (PPRV) from field outbreaks in Palestine (2017–2019). *Transboundary and Emerging Diseases*, **00**, 1–7.
6. Alzuheir, I., Jalboush, N., **Fayyad, A.**, & Manassra, M. (2020). Sequence and phylogenetic analysis of the VP1 segment of chicken infectious anemia virus (CIAV) during an outbreak in Palestine. *The Thai Journal of Veterinary Medicine*, **50**(2), 219–225.
7. Armando, F., **Fayyad, A.**, Arms, S., Barthel, Y., Schaudien, D., Rohn, K., Gambini, M., Lombardo, M. S., Beineke, A., Baumgärtner, W., & Puff, C. (2021). Intratumoral canine distemper virus infection inhibits tumor growth by modulation of the tumor microenvironment in a murine xenograft model of canine histiocytic sarcoma. *International Journal of Molecular Sciences*, **22**(7), 3578.

## Publications

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8. Alzuheir I, **Fayyad A**, Jalboush N, Abdallah R, Abutarbush S, Gharaibeh M, Bdarneh M, Khraim N, Helal MA, Helal BA. Seroprevalence and risk factors of West Nile virus infection in veterinarians and horses in Northern Palestine. *Vet World*. 2021 May;14(5):1241-1246.
9. Alzuheir, I. M., Jalboush, N. H., **Fayyad, A. F.**, & Daibes, R. A. (2021). Phylogenetic analysis and pathological characterization of fowl adenovirus isolated during an inclusion body hepatitis outbreak in Tubas, Palestine. *Veterinary Research Forum*, **12**(4), 511–514.
10. Alzuheir, I., Helal, B. A., Helal, M. A., **Fayyad, A.**, & Jalboush, N. (2022). No evidence of Rift Valley fever antibodies in veterinarians and sheep in Northern Palestine. *Veterinary World*, **15**(8), 1990–1995.
11. Zaazaa, A., Mudalal, S., Alzuheir, I., Samara, M., Jalboush, N., **Fayyad, A.**, & Petracci, M. (2022). The impact of thyme and oregano essential oils dietary supplementation on broiler health, growth performance, and prevalence of growth-related breast muscle abnormalities. *Animals*, **12**, 3065.
12. Thabet, A. M., Alzuheir, I. M., **Fayyad, A. F.**, Kheimar, A. M., & Jalboush, N. H. (2023). Occurrence and phylogenetic analysis of fowl adenovirus E in broiler flocks from Gaza Strip, Palestine. *Journal of Infectious Developing Countries*, **17**(4), 565–570.
13. Thabet, A. M., Alzuheir, I. M., Laham, N. A. A., Helal, B. Y. A., **Fayyad, A. F.**, Jalboush, N. H., & Gharaibeh, M. H. (2023). First report of mobile colistin resistance gene mcr-1 in avian pathogenic *Escherichia coli* isolated from turkeys in the Gaza Strip, Palestine. *Veterinary World*, **16**(6), 1260–1265.
14. **Fayyad, A. F.**, & Alzuheir, I. M. (2023). Pathological detection of nutritional muscular dystrophy in dromedary camel calves in Palestine. *Iraqi Journal of Veterinary Sciences*, **37**(4), 943–947.
15. Zaazaa, A., Mudalal, S., Sabbah, M., **Fayyad, A.**, & Omar, J. A. (2023). Influence of cage density and hen age on performance and egg quality in traditional systems. *Brazilian Journal of Poultry Science*, **25**, 001–008.
16. Alzuheir, I. M., **Fayyad, A. F.**, Abu Helal, B. Y., Atalla, H. A., & Jalboush, N. H. (2024). Detection of canine parvovirus type 2c (CPV-2c) in Palestine. *Journal of Infectious Developing Countries*, **18**(5), 809–816.
17. **Fayyad, A. F.**, & Alzuheir, I. M. (2024). Peste des petits ruminants: Past, present, and future scope. *Journal of Infectious Developing Countries*, **18**, 1837–1845.
18. Mirolo, M., de le Roi, M., von Dörnberg, K., Kaiser, F., **Fayyad, A.**, Puff, C., et al. (2024). Umatilla virus in zoo-dwelling Cape penguins with hepatitis, Germany. *Emerging Infectious Diseases*, **30**(12), 2643–2646.
19. de le Roi, M., Gerhards, H., **Fayyad, A.**, Boelke, M., Becker, S. C., Volz, A., Gerhauer, I., Baumgärtner, W., & Puff, C. (2025). Evaluating the potential of anti-dsRNA antibodies as an alternative viral sensing tool in encephalitides of different species. *Frontiers in Veterinary Science*, **12**, 1540437.
20. de le Roi M, Nägler I, Rubbenstroth D, Beer M, Höper D, Barth SA, **Fayyad A**, Puff C, Baumgärtner W, Wohlsein P. Retrospective analysis of clustered neuroinflammatory and neurodegenerative diseases in captive lions in the early 1970s. *Vet Pathol*. 2025 Jul;62(4):564-580.
21. Alzuheir IM, **Fayyad A**, Thabet A. Antimicrobial prescription practices and opinions regarding antimicrobial resistance among veterinarians in Palestine 2024. *BMC Vet Res*. 2025 May 19;21(1):356.

22. Nägler, Inga ; Puff, Christina ; **Fayyad, A.** ; Baumgärtner, Wolfgang ; Wohlsein, Peter: Retrospektive Untersuchung zu nichteitrigen Entzündungen im zentralen Nervensystem bei Hunden aus den Jahren 1962 bis 2022. *68. Jahrestagung der Fachgruppe Pathologie der Deutschen Veterinärmedizinischen Gesellschaft.*

23. Nägler IM, **Fayyad A**, Puff C, Baumgärtner W, Wohlsein P. Retrospective Analysis of Central Nervous System Diseases in Dogs, with Special Focus on Non-Suppurative Encephalomyelitis (1962-2022). *Vet Sci.* 2025 Sep 8;12(9):869. doi: 10.3390/vetsci12090869. PMID: 41012794; PMCID: PMC12474455.

## ● PROJECTS

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### Projects

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**1. Isolation, Characterization and antimicrobial susceptibility of *Pasteurella multocida* and *Mannheimia haemolytica* from pneumonic infection in sheep and goat in northern Palestine.** Funded by the Federation of Arab Universities support for Palestinian universities (2013).

**2. An Epidemiological and Pathological Investigation of Rabies in Palestine.** Funded by Palestinian Ministry of Education and Higher Education (2018) - (Project code = ANN-MoHE-1819-Sc018).

## ● SCHOLARSHIPS

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### Scholarships

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**1. An-Najah Board of Trustees scholarship (Master Program) 2006-2008.**

**2. DAAD scholarship (Doctoral Program) 2012-2016.**

**3. Zamala fellowship program (Research grant) 2018.**

**4. DAAD scholarship (Re-invitation Program) 2019.**

## ● TECHNICAL SKILLS / LABORATORY TECHNIQUES

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### Technical Skills

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- **Histopathology:** tissue processing, embedding, microtomy, H&E and special stains
- **Immunohistochemistry (IHC):** antibody optimization, antigen retrieval, chromogenic & fluorescent detection
- **In Situ Hybridization (ISH):** RNA/DNA ISH, troubleshooting signal specificity
- **Molecular Biology:** PCR, qPCR, gel electrophoresis, nucleic acid extraction
- **Cell Culture:** primary cells, fibroblasts, iPSC reprogramming, organoid culture, cryopreservation
- **Microscopy:** brightfield, fluorescence