
Dr Arvind Varsani

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EDUCATION

- 1998 - 2003 University of Cape Town, Cape Town, South Africa**
Degree course: **PhD in Molecular and Cell Biology**
Thesis title: **Development of candidate *Human papillomavirus* vaccines**
I investigated deleted and mutated gene products of the HPV-16 major capsid protein gene towards expressing candidate HPV vaccines in plants, with the final aim being the design and analysis of novel chimaeric HPV vaccines.
- 1993 - 1997 Loughborough University, Loughborough, England**
Degree Course: **Medicinal and Pharmaceutical Chemistry (BSc, DIS)**

WORK EXPERIENCE

07/16 – current Arizona State University, Tempe, USA

Professor (05/23 – current; 07/16 – 05/23 Associate professor) in the Biodesign Center of Fundamental and Applied Microbiomics and the School of Life Sciences. I hold adjunct positions in the Biodesign Center for Molecular Evolution and the Center of Evolution and Medicine. I teach both undergraduate and postgraduate courses and run an active research group focused on virus evolution and virus discovery.

02/09 – 07/16 University of Canterbury, Christchurch, New Zealand

Senior lecturer above bar (Assoc. Prof equivalent in USA) in molecular biology / virology.
I taught virology, general molecular and microbiology to 1st, 2nd, 3rd and 4th year students and ran an active research program in DNA virus discovery and evolution.

07/03 – 09/08 University of Cape Town, Cape Town, South Africa

Lecturer for the Masters program in Structural Biology at the University of Cape Town. Funded (5 years) by the Carnegie Corporation of New York, this was the first structural biology initiative in Africa. I lectured on basic molecular biology, protein expression and purification, virus structure, aspects of structural bioinformatics, molecular visualisation and cryo-electron microscopy. In addition to this I provided molecular biology support for most of the projects undertaken by the students as part of their MSc projects.

1995 - 1996 Astra Charnwood (Astra Zeneca Pharmaceuticals), Loughborough, England

I worked as a pre-formulation research scientist in the pharmaceutical sciences department. My work mainly involved taste masking of a research compound using various ion-exchange resins and alternative salt forms. All analysis was done using HPLC, UV spectrophotometry and IR spectrophotometry in compliance with company GLP and SOPs. In addition to this, I did a fair amount of thermal degradation work using TGA, DSC, and hot stage microscopy.

ADJUNT PROFESSIONAL APPOINTMENTS

2022 – current: Affiliate faculty member, Simon A. Levin Mathematical, Computational and Modeling Sciences Center, Arizona State University, USA

2022 – current: Core Faculty member, Center of Evolution and Medicine, Arizona State University, USA

2017 – 2022: Affiliate faculty member, Center of Evolution and Medicine, Arizona State University, USA

2009 – current: Honorary research associate, Structural Biology Research Unit, University of Cape Town, Cape Town, South Africa

2014 – 2017: Courtesy research professor, Department of Plant Pathology and the Emerging Pathogens Institute, University of Florida, Gainesville, USA

2016 – 2019: Adjunct Associate professor, School of Biological Sciences, University of Canterbury, Christchurch, New Zealand

AWARDS AND PRIZES (ACADEMIC)

2024: Zebulon Pearce Distinguished Teaching Award in Natural Sciences, The College of Liberal Arts and Sciences. Arizona State University, USA

2024: Outstanding Postdoctoral Mentor award, Graduate college. Arizona State University, USA

2008: Patent incentive award from the South African Department of Science and Technology, South Africa

2007: Patent incentive award from the South African Department of Science and Technology, South Africa

RESEARCH

I work across ecosystems, from plants to animals, and from the tropics to the Antarctic with a strong focus on viral evolution and dynamics, and viral metagenomics. My research uses a combination of traditional virology, microscopy (including transmission electron microscopy), molecular and cellular biology techniques in conjunction with modern techniques including high throughput sequencing, synthetic biology and bioinformatics.

PUBLICATIONS

H-Index: 89; i10-index: 343

1. Bando RA, Kraberger S, Ozturk C, Zhu Q, Smith B, Krupovic M, Cook C, **Varsani A. 2026. Genetic diversity of *Apis mellifera filamentous virus* in bees sampled in the USA and Jamaica. Arch Virol. 171:125**
2. De Koch MD, Kraberger S, Fielding R, Smith K, Schiavone K, Hall KR, Reid VS, Boyea D, Smith EL, Schmidlin K, Fontenele RS, Martin DP, Krupovic M, **Varsani A. 2026. Novel circoviruses identified in short-finned pilot whale and orca from the North Atlantic Ocean. Virology. 615: 110768**
3. Kraberger S, Opriessnig T, Maggi F, Celer V, Okamoto H, van der Hoek L, Biagini P, Krupovic M, **Varsani A**, ICTV Consortium. **2026. ICTV Virus Taxonomy Profile: Anelloviridae 2026.** J Gen Virol 107: 002222
4. Paietta EN, Johnston RA, Randrianarisoa SF, DeSisto CMM, Kraberger S, Martin DP, Razanamahenina TT, Ramboninarimalala A, Velontsara J-P, Raheirinirina TG, Rasendrinirina V, Raveloson L, Luo Y, Finley NL, Baitchman E, Yoder AD, **Varsani A. 2026. Host-anellovirus interactions in a unique island ecosystem: Non-human primates and rodents in Madagascar harbor diverse, rich anellovirus populations. Microbial Genomics 12: 001681**
5. Paietta EN, Kraberger S, Gordon M, Ehmke E, Yoder AD, **Varsani A. 2026. Metagenome-assembled genomes of anelloviruses in crowned lemur and aye-aye swabs. Microbial resource announcements. 15: e01473-25**
6. Paietta EN, Randrianarisoa SF, Razanamahenina TT, Ramboninarimalala A, Raheirinirina TG, Raveloson L, Finley NL, Yoder AD, Bautchman E, **Varsani A**, Johnston RA. **2026. Complete mitochondrial DNA sequences of *Eliurus webbi* and *Eliurus minor*, endemic tufted-tailed rats in Madagascar. Mitochondrial DNA Part B 11: 561–566.**
7. Trubl G, Roux S, Borton MA, **Varsani A**, Li Y-F, Sun C, Bin Jang H, Woodcroft BJ, Tyson GW, Wrighton K, Saleska S, Elloe-Fadrosh EA, Sullivan MB, Rich VI. **2026. Population ecology and potential biogeochemical impacts of ssDNA and dsDNA soil viruses along a permafrost thaw gradient. Nat Comms. 17: 375**
8. Simmonds P, Adriaenssens EM, Lefkowitz EJ, Oksanen HM, Zerbini FM, Alfenas-Zerbini P, Aylward FO, Dempsey DM, Freitas-Astúa J, Hendrickson RC, Hughes HR, Krupovic M, Kuhn JH, Łobocka M, Mayne R, Mushegian AR, Penzes JJ, Reyes Muñoz A, Robertson DL, Roux S, Rubino L, Sabanadzovic S, Smith DB, Suzuki N, Turner D, Doorslaer KV, **Varsani A. 2026. Changes to virus taxonomy, the international code of virus classification and nomenclature, and the ICTV statutes ratified by the International Committee on Taxonomy of Viruses (2025). Arch Virol. 171:23.**
9. Tisza MJ, **Varsani A**, Petrosino JF, Cregeen SJJ. **2026. Cenote-Taker 3 for Fast and Accurate Virus Discovery and Annotation of the Virome. Peer Community Journal 6: e31**
10. Adriaenssens EM, Cook R, Dolja V, Koonin EV, Krupovic M, Kuhn JH, Lood C, Reyes Muñoz A, Turner D, **Varsani A**, Vaz PK, Waltzek T, Wolf YI, Yutin N, Zerbini FM. **2025. ICTV Virus Taxonomy Profile: Duplodnaviria 2025. J Gen Virol. 106:002139**
11. Bando RA, Kraberger S, Ozturk C, Lund MC, Zhu Q, Cook C, Smith B, **Varsani A. 2025. Identification of diverse bacteriophages associated with bees and hoverflies. Viruses. 17: 201.**
12. Ben Chéhida S, Lacroix S, Hoareau M, Fenelon B, **Varsani A**, Martin DP, Teycheney PY, Lefeuvre P, Lett JM. **2025. To be or not to be a virus: A novel chimeric circular Rep-encoding single stranded DNA virus with interfamilial gene exchange illustrates the considerable evolutionary capacity of ssDNA viruses. PLoS One. 20:e0309278**

13. Blondet L, Mouanda Sounda A, Fritz M, Filloux D, Yvon M, Blanc S, **Varsani A**, Fabien Niama R, Leroy EM, Roumagnac P. **2025**. *Sentinels tracking viruses in various ecosystems: Towards a One Health approach*. PLoS Pathog 21: e1013141
14. da Silva Fong D, Abrantes J, Moura T, Serra-Pereira B, Xavier R, Verissimo A, **Varsani A**, Neves F. **2025**. *Identification and characterization of a novel Papillomavirus in thornback skate (Raja clavata)*. Microbial Genomics. 11: 001541
15. De Koch MD, Krupovic M, Fielding R, Smith K, Schiavone K, Hall KR, Reid VS, Boyea D, Smith EL, Schmidlin K, Fontenele RS, Koonin EV, Martin DP, Kraberger S, **Varsani A**. **2025**. *Novel lineage of anelloviruses with large genomes identified in dolphins*. J Virol. 99: e01370-24
16. De Koch M, Sweeney N, Taylor JE, Lucas F, Ratheesh NK, Lamb SK, Miller J, Kraberger S, **Varsani A**. **2025**. *Diverse anelloviruses identified in leporids from Arizona (USA)*. Viruses. 17: 280
17. Kraberger S, Custer JM, Hammond R, Gibson M, Aguiar de Souza Penha V, McGraw H, Fountain-Jones NM, Olivo D, Vargas KL, Kaján GL, Harrach B, McGraw KJ, **Varsani A**. **2025**. *Incidence and diversity of circoviruses, polyomaviruses, and adenoviruses in exotic free-roaming rosy-faced lovebirds from Phoenix, Arizona, USA*. Virology. 611:110640.
18. Łukaszuk E, Dziewulska D, **Varsani A**, Stenzel T. **2025**. *Coronaviruses in diarrheic pigeons and the first determination of the complete genome of a new pigeon gammacoronavirus*. Sci Rep 15, 19108
19. Łukaszuk E, Dziewulska D, Prątnicka A, Custer JM, Kraberger S, **Varsani A**, Stenzel T. **2025**. *Characterization, phylogeny and prevalence of the coding-complete genomes of aviadenoviruses and siadenovirus in young racing pigeons*. Virology. 603: 110400
20. Łukaszuk E, Dziewulska D, Khalifeh A, Custer JM, Kraberger S, **Varsani A**, Stenzel T. **2025**. *Known and novel parvoviruses identified in domestic pigeons*. BMC Vet Res. 21:47
21. Mayne R, Simmonds P, Smith DB, Adriaenssens EM, Lefkowitz EJ, Oksanen HM, Zerbini FM, Alfenas-Zerbini P, Aylward FO, Freitas-Astúa J, Hendrickson RC, Hughes HR, Krupovic M, Kuhn JH, Łobocka M, Mushegian AR, Penzes J, Muñoz AR, Robertson DL, Roux S, Rubino L, Sabanadzovic S, Suzuki N, Turner D, Van Doorslaer K, **Varsani A**. **2025**. *Virus taxonomy proposal summaries: a searchable and citable resource to disseminate virus taxonomy advances*. Journal of General Virology 106: 10.1099
22. McGraw KJ, Hammond R, Kraberger S, **Varsani A**. **2025**. *Variation in Plumage Coloration of Rosy-Faced Lovebirds (Agapornis roseicollis): Links to Sex, Age, Nutritional Condition, Viral Infection, and Habitat Urbanization*. J Exp Zool A Ecol Integr Physiol. 343:48–58
23. Olivo DA, Kraberger S, Chiu EC, Custer JM, Jackson D, Regney M, Lund MC, Bando RA, Aguiar de Souza Penha V, Drake D, McGraw KJ, **Varsani A**. **2025**. *Avian circoviruses and hepadnaviruses identified in tissue samples of various waterfowl*. Virology. 603: 110381
24. Regney M, Morandini V, Schmidt AE, Belliure J, Lescroël A, Elrod M, Li A, Cox A, Khor D, Jongsomjit D, Pennycook J, Burnham C, Swanson N, Winqvist S, Dugger KM, Ainley DG, Ballard G, Kraberger S, **Varsani A**. **2025**. *Diversity of polyomaviruses and papillomaviruses in penguins from eastern and western Antarctica*. Microbial Genomics. 11:001580
25. Rubino L, Abrahamian P, An W, Aranda MA, Ascencio-Ibañez JT, Bejerman N, Blouin AG, Candresse T, Canto T, Cao M, Carr JP, Cho WK, Constable F, Dasgupta I, Debat H, Dietzgen RG, Digiaro M, Donaire L, Elbeaino T, Fargette D, Filardo F, Fischer MG, Fontdevila N, Fox A, Freitas-Astua J, Fuchs M, Geering ADW, Ghafari M, Hafrén A, Hammond J, Hammond R, Hasiów-Jaroszewska B, Hebrard E, Hernández C, Hily J-M, Hosseini A, Hull R, Inoue-Nagata AK, Jordan R, Kondo H, Kreuze JF, Krupovic M, Kubota K, Kuhn JH, Leisner S, Lett J-M, Li C, Li F, Li JM, López-Lambertini PM, Lopez-Moya JJ, Maclot F, Mäkinen K, Martin D, Massart S, Miller WA, Mohammadi M, Mollov D, Muller E, Nagata T, Navas-Castillo J, Neriya Y, Ochoa-Corona FM, Ohshima K, Pallás V, Pappu H, Petrzik K, Pooggin M, Prigigallo MI, Ramos-González PL, Ribeiro S, Richert-Pöggeler KR, Roumagnac P, Roy A, Sabanadzovic S, Šafářová D, Saldarelli P, Sanfaçon H, Sarmiento C, Sasaya T, Scheets K, Schraevesande WEW, Seal S, Shimomoto Y, Sömera M, Stavalone L, Steward LR, Teycheney P-Y, Thomas JE, Thompson JR, Tiberini A, Tomitaka Y, Tzanetakis I, Umber M, Urbino C, van den Burg HA, Van der Vlugt RAA, **Varsani A**, Verhage A, Villamor D, von Bargen S, Walker PJ, Wetzel T, Whitfield AE, Wylie SJ, Yang C, Zerbini FM, Zhang S, ICTV Summary Consortium. **2025**. *Summary of taxonomy changes ratified by the International Committee on Taxonomy of Viruses from the Plant Viruses Subcommittee, 2025*. J Gen Virol. 106: 10.1099
26. Saroff MJ, Azanaw Haile A, Baniel A, Kraberger S, Regney M, Harrach B, Kaján GL, Lu A, Beehner JC, Bergman TJ, Snyder-Mackler N, **Varsani A**, Schneider-Crease IA. **2025**. *Early-life infection dynamics and genomic diversity of adenoviruses in a wild primate*. Microbial Genomics. 11:001595
27. Schneider-Crease IA, Moya IL, Chiou KL, Baniel A, Azanaw Haile A, Kebede F, Abebe B, Lu A, Bergman TJ, Snyder-Mackler N, **Varsani A**. **2025**. *Intestivirid acquisition increases across infancy in a wild primate population*. Mol Ecol. 34: e17801

28. Scotch M, Faley TOC, Wright JM, Finnerty S, Halden RU, **Varsani A.** 2025. *Campus-based genomic surveillance uncovers early emergence of a future dominant A(H3N2) influenza clade.* iScience. 28:113941.
29. Vargas J, Bermudez-Rivera B, Block I, Shaffer G, Estrada L, Dadd T, Dickerson T, Curtis C, Woods C, Driver EM, Halden RU, **Varsani A,** Scotch M, Faley TOC. 2025. *Canine Parvovirus and Vaccine-Origin Feline Panleukopenia Virus in Wastewater, Arizona, USA: July 2022–June 2023.* Microorganisms. 13: 2124.
30. **Varsani A.,** Hopkins A, Lund MC, Krupovic M. 2025. *2024 taxonomic update for the families Naryaviridae, Nenyaviridae and Vilyaviridae.* Arch Virol. 170:18
31. **Varsani A,** Custer JM, Cobb IN, Harding C, Collins CL, Suazo C, Schreck J, Fontenele DS, Dayaram A, Goldstien S, Kazlauskas D, Kraberger S, Krupovic M. 2025. *Bacilladnaviridae: refined taxonomy and new insights into the biology and evolution of diatom infecting DNA viruses.* J Gen Virol. 106: 002084
32. **Varsani A,** Abd-Alla AMM, Arnberg N, Bateman KS, Benkő M, Bézier A, Biagini P, Bojko J, Butkovic A, Canuti M, Celer V, Drezén JM, Egyed L, Fischer MG, François S, Guinet B, Harrach B, Harrison RL, Herniou EA, Hess M, Hu J, Jehle JA, Kaján GL, Kajon AE, Koonin EV, Kraberger S, Krell PJ, Krupovic M, Kuhn JH, Lei C, Leibold M, Maggi F, Mittal SK, Okamoto H, Opriessnig T, Peng X, Péntzes J, Podgorski, II, Postler TS, Ribeiro BM, San Martín C, Söderlund-Venermo M, Sun X, Surján A, Tarján ZL, Varaldi J, Vidovszky MZ, Wadell G, Watanabe H, Yutin N, van Oers MM, ICTV Summary Consortium. 2025. *Summary of taxonomy changes ratified by the International Committee on Taxonomy of Viruses (ICTV) from the Animal DNA Viruses and Retroviruses Subcommittee, 2025.* J Gen Virol. 106: 10.1099
33. Vidal AH, Abreu ACR, Dantas-Filho JFS, Vianna MJX, Lacorte C, Abreu EFM, Felix GP, Alves-Freitas DMT, Pinheiro-Lima B, Nogueira I, Faleiro FG, Rosa RCC, Jesus ON, Sanches MM, Santos YS, Blawid R, Jiménez JLS, Vaslin MFS, Kitajima EW, Campos MdA, Fontenele RS, **Varsani A,** Melo FL, Ribeiro SG. 2025. *Discovery and Genome Characterization of Three New Rhabdoviruses Infecting Passiflora spp. in Brazil.* Viruses 17:725
34. Zerbini FM, Simmonds P, Adriaenssens EM, Lefkowitz EJ, Oksanen HM, Alfenas-Zerbini P, Aylward FO, Freitas-Astúa J, Hughes HR, Łobocka M, Krupovic M, Kuhn JH, Mushegian A, Penzes JJ, Reyes A, Robertson DL, Roux S, Rubino L, Sabanadzovic S, Smith DB, Suzuki N, Turner D, Van Doorslaer K, **Varsani A.** 2025. *Virus species names have been standardized; virus names remain unchanged.* mSphere 10:e00020-25.
35. Žuštra A, Howard A, Schwartz K, Day R, Dietrich J, Sobotyk C, Kraberger S, **Varsani A.** 2025. *Three distinct circovirids identified in a tapeworm recovered from a bobcat (Lynx rufus).* Viruses 17: 745
36. Bando RA, Kraberger S, **Varsani A.** 2024. *Two novel geminiviruses identified in bees (Apis mellifera and Nomia sp.).* Viruses. 16: 602
37. Ben Chehida S, Devi Bunwaree H, Hoareau M, Moubset O, Julian C, Blondin L, Filloux D, Lavergne C, Roumagnac P, **Varsani A,** Martin DP, Lett J-M, Lefeuve P. 2024. *Increase of niche filling with increase of host richness for plant infecting mastreviruses.* Virus Evol. 10: veae107
38. Bermudez-Rivera B, Hampton B, Wheeler C, Vargas J, Swaminathan S, Driver EM, Halden RU, **Varsani A,** Scotch M, Faley TOC. 2024. *Nine Rhizobium phage genomes recovered from wastewater in Tempe, AZ, October 2019–March 2020.* Microbiol Resour Announc 13: e00680-24.
39. Faley TOC, Driver EM, Wright JM, Halden RU, **Varsani A,** Scotch M. 2024. *Direct detection of canine picornavirus complete coding sequence in wastewater using long-range reverse-transcriptase polymerase chain reaction and long-read sequencing.* Infect Genet Evol. 118: 105550
40. Faley TOC, Skidmore P, Elyaderani A, Adhikari S, Kaiser N, Smith A, Yanez A, Perleberg T, Driver EM, Halden RU, **Varsani A,** Scotch M. 2024. *Exploring canine picomavirus diversity in the USA using wastewater surveillance: From high-throughput genomic sequencing to immuno-informatics and capsid structure modeling.* Viruses. 16:1188
41. Faley TOC, Skidmore P, Elyaderani A, Adhikari S, Kaiser N, Smith A, Yanez A, Perleberg T, Driver EM, Halden RU, **Varsani A,** Scotch M. 2024. *Adenovirus 41 diversity in Arizona (USA) using wastewater-based epidemiology, long-range PCR, and pathogen sequencing between October 2019 and March 2020.* Epidemiology and Infection. 152:e142
42. Hess SC, Weiss KCB, Custer JM, Lewis JS, Kraberger S, **Varsani A.** 2024. *Identification of small circular DNA viruses in coyote fecal samples from Arizona.* Arch Virol. 169:12
43. Khalifeh A, Sahnan S, Kale S, Olivo D, Lund MC, Kraberger S, **Varsani A.** 2024. *Genomes of cressdnaviruses, microviruses, a gyrovirus, and a caudovirus identified in the fecal samples of a mallard and double-crested cormorant.* Microbiol Resour Announc. 13:e00332-24
44. Kraberger S, Serieys LEK, Leighton GRM, De Koch MD, Munday JS, Bishop JM, **Varsani A.** 2024. *Two lineages of papillomaviruses identified from caracals (Caracal caracal) in South Africa.* Viruses 16: 701
45. Lisovski S, Günther A, Dewar M, Ainley D, Aldunate F, Arce R, Ballard G, Bauer S, Belliure J, Banyard AC, Boulinier T, Bennison A, Braun C, Cary C, Catry P, Clessin A, Connan M, Correia E, Cox A, Cristina J, Elrod M, Emerit J, Ferreira I, Fowler Z, Gamble A, Granadeiro JP, Hurtado J, Jongsomjit D, Lesage C, Lejeune M, Kuepfer A, Lescroël A, Li A, McDonald IR, Menéndez-Blázquez J, Morandini V, Moratorio G, Militão T, Moreno P, Perbolianachis P, Pennycook J, Raslan M, Reid SM, Richards-Babbage R, Schmidt AE, Sander MM, Smyth L,

- Soutullo A, Stanworth A, Streith L, Tornos J, **Varsani A**, Herzsuh U, Beer M, Wille M. **2024**. *Unexpected Delayed Incursion of Highly Pathogenic Avian Influenza H5N1 (Clade 2.3.4.4b) Into the Antarctic Region*. *Influenza Other Respir Viruses*. 18:e70010.
46. Łukaszuk E, Dziewulska D, Custer JM, Kraberger S, **Varsani A**, Stenzel T. **2024**. *Occurrence of astrovirus in young racing pigeons and genome characterization of two new astrovirus genomes representing two new species*. *Poultry Science*. 103: 104028
 47. Lund MC, Hopkins A, Dayaram A, Galatowitsch ML, Stainton D, Harding JS, Lefeuvre P, Zhu Q, Kraberger S, **Varsani A**. **2024**. *Diverse microviruses circulating in invertebrates within a lake ecosystem*. *J Gen Virol*. 105:002049
 48. Millerwise S, Lund MC, Schmidlin K, Kraberger S, Pinter-Wollman N, **Varsani A**. **2024**. *Coding complete genomes of an iridovirus and two parvoviruses identified in lab-reared social spiders (Stegodyphus dumicola)*. *Microbiol Resour Announc*. 13:e0073924
 49. Morandini V, Dugger K, Schmidt A, **Varsani A**, Lescroël A, Ballard G, Lyver P, Barton K, Ainley D. **2024**. *Sex-specific recruitment rates contribute to male-biased sex ratio in Adélie penguins*. *Ecology and Evolution*. 14:e10859
 50. Moubset O, Filloux D, Fontes H, Julian C, Fernandez E, Galzi S, Blondin L, Ben Chehida S, Lett J-M, Mesleard M, Kraberger S, Custer JM, Salywon A, Makings E, Marais A, Chiroleu F, Lefeuvre P, Martin DP, Candresse T, **Varsani A**, Ravigné A, Roumagnac P. **2024**. *Virome release of an invasive exotic plant species in southern France*. *Virus Evol*. 10, veae025
 51. Olivo D, Khalifeh A, Custer JM, Kraberger S, **Varsani A**. **2024**. *Diverse small circular DNA viruses identified in an American wigeon fecal sample*. *Microorganisms*. 12: 196
 52. Olivo D, Kraberger S, **Varsani A**. **2024**. *New duck papillomavirus type identified in a mallard from Missouri, USA*. *Arch Virol*. 167: 77
 53. Oyeniran KA, Martin DP, Lett J-M, Rasoafalimanana Rakotomalala M, Azali HA, **Varsani A**. **2024**. *Movement of the A-strain maize streak virus in and out of Madagascar*. *Virology*. 600: 110222
 54. Paietta EN, Kraberger S, Regney M, Custer JM, Ehmke E, Yoder AD, **Varsani A**. **2024**. *Interspecies papillomavirus type infection and a novel papillomavirus type in red-ruffed lemurs (Varecia rubra)*. *Viruses*. 16:37
 55. Paietta EN, Kraberger S, Lund MC, Vargas KL, Custer JM, Ehmke E, Yoder AD, **Varsani A**. **2024**. *Diverse circular DNA viral communities in blood, oral, and fecal samples of captive lemurs*. *Viruses* 16: 1099
 56. Paietta EN, Kraberger S, Custer JM, Vargas KL, Ehmke E, Yoder AD, **Varsani A**. **2024**. *Metagenome-assembled microvirus and cressdnavirus genomes from fecal samples of house mice (Mus musculus)*. *Microbiol Resour Announc*. 13: 00331-24
 57. Regney M, Kraberger S, Custer JM, Crane AE, Shero MR, Beltran RS, Kirkham AL, Van Doorslaer K, Stone AC, Goebel ME, Burns JM, **Varsani A**. **2024**. *Diverse papillomavirus identified from Antarctic fur seals, leopard seals and Weddell seals from the Antarctic*. *Virology*. 594: 110064
 58. Sahnan S, Olivo D, Custer JM, Bando RA, Jackson D, Lund MC, McGraw H, Regney M, Aguiar de Souza Penha V, Neil J, Drake D, McGraw K, **Varsani A**, Kraberger S. **2024**. *Genome analysis of gyroviruses identified in waterfowl from Arizona (USA)*. *Arch. Virol*. 169: 120
 59. Simmonds P, Adriaenssens EM, Lefkowitz EJ, Oksanen HM, Siddell SG, Zerbini FM, Alfenas-Zerbini P, Aylward FO, Dempsey DM, Dutilh BE, Freitas-Astúa J, Garcia ML, Hendrickson RC, Hughes HR, Junglen S, Krupovic M, Kuhn JH, Lambert AJ, Łobocka M, Mushegian AR, Penzes J, Muñoz AR, Robertson DL, Roux S, Rubino L, Sabanadzovic S, Smith DB, Suzuki N, Turner D, Van Doorslaer K, Vandamme AM, **Varsani A**. **2024**. *Changes to virus taxonomy and the ICTV Statutes ratified by the International Committee on Taxonomy of Viruses (2024)*. *Arch Virol*. 169:236
 60. Stenzel T, Dziewulska D, Łukaszuk E, Custer JM, De Koch MD, Kraberger S, **Varsani A**. **2024**. *The pigeon circovirus evolution, epidemiology and interaction with the host immune system under One Loft Race rearing conditions*. *Scientific Reports*. 14: 13815
 61. Santos YS, Vidal AH, Abreu EFM, Nogueira I, Faleiro FG, Lacorte CC, Melo FL, de Araújo Campos M, de Rezende RR, Morgan T, **Varsani A**, Alfenas-Zerbini P, Ribeiro SG. **2024**. *Detection and molecular characterization of a novel mitovirus associated with Passiflora edulis Sims*. *Arch Virol*. 169:190
 62. **Varsani A**, Harrach B, Roumagnac P, Benkő M, Breitbart M, Delwart E, Franzo G, Kazlauskas D, Rosario K, Segalé J, Dunay E, Rukundo J, Goldberg TL, Fehér E, Kaszab E, Bányai K, Krupovic M. **2024**. *2024 taxonomy update for the family Circoviridae*. *Arch Virol* 169: 176
 63. **Varsani A**, Krupovic M. **2024**. *2024 Smacoviridae family update: 59 new species in seven genera*. *Arch Virol*. 169: 184
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PATENTS

International patents:

1. Rybicki E.P., **Varsani A.D.** (2010) *Chimaeric Human Papillomavirus 16 L1 Virus Like Particles and a Method for Preparing the Particles*. Patent No. 24614765, Japan.
2. Rybicki E.P., **Varsani A.D.** (2009) *Chimaeric Human Papillomavirus 16 L1 Virus Like Particles and a Method for Preparing the Particles*. Patent No. 2003232951, Australia.
3. Rybicki E.P., **Varsani A.D.** (2009) *Chimaeric Human Papillomavirus 16 L1 Virus Like Particles and a Method for Preparing the Particles*. Patent No. 1506222, Europe (EU).

4. **Varsani, A.D.** and Rybicki, E.P. (2008) *Chimaeric Human Papillomavirus 16 L1 Virus Like Particles and a Method for Preparing the Particles*. Patent No. 7407807, US.
5. Rybicki E.P., **Varsani A.D.** and Williamson A-L. (2008) *Pharmaceutical Compositions, a Method of Preparing and Isolating Said Pharmaceutical Compositions for Prophylactic Treatment of Lesions and Carcinomas*. Patent No. 221817, India.
6. Rybicki E.P., **Varsani A.D.** and Williamson A-L. (2008) *Pharmaceutical Compositions, a Method of Preparing and Isolating Said Pharmaceutical Compositions for Prophylactic Treatment of Lesions and Carcinomas*. Patent No. 02821542.7, China.
7. Rybicki E.P., **Varsani A.D.** (2006) *Chimaeric Human Papillomavirus 16 L1 Virus Like Particles and a Method for Preparing the Particles*. Patent No. 2004/10137, South Africa.
8. Rybicki E.P., **Varsani A.D.** and Williamson A-L. (2006) *Vectors and/or Constructs, and Transgenic Organisms*. Patent No. 02821507.9, China.
9. Rybicki E.P., **Varsani A.D.** and Williamson A-L. (2005) *Pharmaceutical Compositions, a Method of Preparing and Isolating Said Pharmaceutical Compositions for Prophylactic Treatment of Lesions and Carcinomas*. Patent No. 2004/2505, South Africa.
10. Rybicki E.P., **Varsani A.D.** and Williamson A-L. (2005) *Vectors and/or Constructs, and Transgenic Organisms*. Patent No. 2004/2504, South Africa.

INTERNATIONAL REFEREEING AND SCIENTIFIC COMMITTEES

- 1) Executive committee member of the “International Committee on Taxonomy of Viruses” (2014 – current)
- 2) Committee member of the “International Committee on Taxonomy of Viruses” *Geminiviridae* study group (2010 – current)
- 3) Chair of the “International Committee on Taxonomy of Viruses” *Circoviridae* study group (2011 – current)
- 4) Chair of the “International Committee on Taxonomy of Viruses” *Anelloviridae* study group (2019 – 2023)
- 5) Chair of the “International Committee on Taxonomy of Viruses” Animal DNA Viruses and Retroviruses Subcommittee (2020 – current)
- 6) Advisory board of the journal *Virology* (2015 – current)
- 7) Advisor for virus genomes as part of the NCBI RefSeq Virus group (2016 – current)
- 8) Associate editor for *Phytopathology* (2018- current)
- 9) Associate editor for *Virus Evolution* (2019 – current)
- 10) Associate editor for *Journal of General Virology* (2020 – 2023)
- 11) Associate editor for *Proceedings of the Royal Society B* journal (2024-current)
- 12) Editorial board for *Microorganisms* (2018 – current)
- 13) Member of the Scientific Committee on Antarctic Research Expert Group on Birds and Marine Mammals - Working group of Health Monitoring of Birds and Marine Mammals (2020- 2024)
- 14) Member of the scientific advisory board for Point Blue Conservation Science (2022- current)
- 15) Referee for the following journals
 - *Annals of Applied Biology* (Wiley-Blackwell)
 - *Annals of the New York Academy of Sciences* (Wiley)
 - *Applied and Environmental Microbiology* (ASM)
 - *Archives of Virology* (Springer-Nature)
 - *Australasian Plant Pathology* (CSIRO publishing)
 - *Avian Pathology* (Taylor and Francis)
 - *Cell Host and Microbe* (Cell Press)
 - *Crop and Pasture Science* (CSIRO publishing)
 - *Emerging Infectious Diseases* (Centers for Disease Control and Prevention)
 - *European Journal of Plant Pathology* (Springer-Nature)
 - *Evolutionary Applications* (Wiley)
 - *Gene* (Elsevier)
 - *Genome Biology and Evolution* (Oxford Journals)
 - *Infection, Genetics and Evolution* (Elsevier)
 - *International Journal of Odonatology* (Taylor and Francis)
 - *ISME Journal* (Springer-Nature)
 - *Journal of Clinical Virology* (Elsevier)

- Journal of General Virology (SGM)
- Journal of Virological Methods (Elsevier)
- Journal of Virology (ASM)
- mBIO (ASM)
- mSphere (ASM)
- Microbial Genomics (SGM)
- Molecular Phylogenetics and Evolution (Elsevier)
- Nature Microbiology Review (Springer-Nature)
- Nature Biotechnology (Springer-Nature)
- Nature Microbiology (Springer-Nature)
- Nature Protocols (Springer-Nature)
- Phytopathology (APS)
- Plant Pathology Journal (Wiley)
- PLoS One (PLoS Journals)
- PLoS Pathogens (PLoS Journals)
- Proceedings of the National Academy of Sciences (NAS)
- Proceedings of the Royal Society B (Royal Society)
- Science Advances (AAAS)
- Scientific Reports (Springer-Nature)
- Transboundary and Emerging Diseases (Wiley)
- Transfusion (Wiley)
- Virology (Elsevier)
- Virology Journal (BioMed Central)
- Virulence (Taylor and Francis)
- Virus Evolution (Oxford Journals)
- Virus Genes (Springer-Nature)
- Virus Research (Elsevier)

GENERAL

Languages

Proficient in spoken and written English, Swahili and Gujarati.

Personal interests

Climbing, mountaineering, trail running and photography.

REFEREES

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