
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

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

- 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)

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

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

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: 60; i10-index: 201

1. Bando RA, Bautista J, Lund M, Newkirk E, Squires J, **Varsani A**, Kraberger S. **2021**. *Identification of novel circovirus and anelloviruses from wolverines using a non-invasive faecal sampling approach*. Infect Genet Evol. 93: 104914
2. Barbosa A, **Varsani A**, Morandini V, Grimaldi W, Vanstreels RET, Diaz JI, Boulinier T, Dewar M, González-Acuña D, Gray G, McMahon CR, Miller G, Power M, Gamble A, Wille M. **2021**. *Risk assessment of SARS-CoV-2 in Antarctic wildlife*. Sci Total Environ. 755: e143352
3. Brown BP, Chopera D, Havyarimana E, Wendoh J, Jaumdally S, Nyangahu DD, Gray CM, Martin DP, **Varsani A**, Jaspan HB. **2021**. *crAssphage genomes identified in fecal samples of an adult and infants with evidence of positive genomic selective pressure within tail protein genes*. Virus Res. 292: e198219
4. Chabi-Jesus C, Ramos-González PL, Barro MP, Fontenele RS, Harakava R, Bassanezi RB, Moreira AS, Kitajima EW, **Varsani A**, Freitas-Astua J. **2021**. *Molecular epidemiology of citrus leprosis virus C: a new viral lineage and phylogenetic of the main viral subpopulations in the Americas*. Front Microbiol. 12: e641252
5. Collins CL, DeNardo DF, Blake M, Norton J, Schmidlin K, Fontenele RS, Wilson MA, Kraberger S, **Varsani A**. **2021**. *Genome sequences of microviruses identified in Gila monster feces*. Microbiol Res Announc. 10: e00163-21
6. Faleye T, Driver E, Bowes D, Adhikari S, Adams D, **Varsani A**, Halden RU, Scotch M. **2021**. *Pan-enterovirus amplicon-based high throughput sequencing detects the complete capsid of a EVA71 genotype C1 variant via wastewater-based epidemiology in Arizona*. Viruses. 13: 74
7. Fontenele RS, Salywon AM, Majure LC, Cobb IN, Bhaskara A, Avalos-Calleros JA, Argüello-Astorga GR, Schmidlin K, Khalifeh A, Smith K, Puente-Martinez R, Schreck J, Lund MC, Köhler M, Wojciechowski MF, Hodgson WC, Van Doorslaer K, Kumari S, Oyeniran KA, Vernière C, Filloux D, Roumagnac P, Lefevre P, Ribeiro SG, Kraberger S, Martin DP, **Varsani A**. **2021**. *New World Cactaceae plants harbor diverse geminiviruses*. Viruses. 13: e694
8. Fontenele RS, Bhaskara A, Cobb IN, Majure LC, Salywon AM, Avalos-Calleros JA, Argüello-Astorga GR, Schmidlin K, Roumagnac P, Ribeiro SG, Kraberger S, Martin DP, Lefevre P, **Varsani A**. **2021**. *Identification of the begomoviruses squash leaf curl virus and watermelon chlorotic stunt virus in various plant samples in North America*. Viruses 13: e810
9. Guo J, Bolduc B, Zayed A, **Varsani A**, Dominguez-Huerta G, Delmont T, Pratama A, Gazitúa MC, Vik D, Sullivan MB, Roux S. **2021**. *VirSorter2: A multi-classifier, expert-guided approach to detect diverse DNA and RNA viruses*. Microbiome. 9: e37
10. Khalifeh A, Blumstein DT, Fontenele RS, Schmidlin K, Richet C, Kraberger S, **Varsani A**. **2021**. *Diverse cressdnviruses and an anellovirus identified in the fecal samples of yellow-bellied marmots*. Virology. 554: 89-96
11. Khalifeh A, Kraberger S, Dziewulska D, Stenzel T, **Varsani A**. **2021**. *Complete Genome Sequence of a Phapocotavirus Isolated from a Pigeon Cloacal Swab Sample*. Microbiol Res Announc. 10: e01471-20
12. Khalifeh A, Kraberger S, Dziewulska D, **Varsani A**, Stenzel T. **2021**. *A pilot study investigating the dynamics of pigeon circovirus recombination in domesticated pigeons housed in a single loft*. Viruses. 13: 964
13. Kraberger K, Schreck J, Galilee C, **Varsani A**. **2021**. *Genome sequences of microviruses identified in a sample from a sewage treatment oxidation pond*. Microbiol Res Announc. 10: e00373-21
14. Martin DP, **Varsani A**, Roumagnac P, Botha G, Maslamoney S, Schwab T, Kelz Z, Kumar V, Murrell B. **2021**. *RDP5: A computer program for analysing recombination in, and removing signals of recombination from, nucleotide sequence datasets*. Virus Evol. 7: veaa087
15. Oyeniran KA, Hartnady P, Claverie S, Lefevre P, Monjane AL, Donaldson L, Lett J-M, **Varsani A**, Martin DP. **2021**. *How virulent are emerging maize-infecting mastreviruses?* Arch Virol. 166: 955-959

16. Saad N, Olmstead JW, **Varsani A**, Polston JE, Jones JB, Folimonova SY, and Harmon PF. **2021**. *Discovery of known and novel viruses in wild and cultivated blueberry in Florida through viral metagenomic approaches*. *Viruses*. 13: e1165
17. Smith K, Fielding R, Schiavone K, Hall KR, Reid V, Boyea D, Smith EL, Schmidlin K, Fontenele RS, Kraberger S, **Varsani A**. **2021**. *Circular DNA viruses identified in short-finned pilot whale and orca tissue samples*. *Virology* 559: 156-164
18. Vidal AH, Felix GP, Abreu EFM, Nogueira I, Alves-Freitas DMT, Faleiro FG, Fontenele RS, Peixoto JR, Lacorte C, Rosa RCC, de Jesus ON, Resende RO, **Varsani A**, Ribeiro SG. **2021**. *Occurrence of lettuce chlorosis virus in Passiflora spp. in Brazil*. *J Plant Path.* 103: 443-447
19. Águeda-Pinto A, Kraberger S, Lund MC, Gortázar C, McFadden G, **Varsani A**, Esteves PJ. **2020**. *Coinfections of novel polyomavirus, anelloviruses and a recombinant strain of myxoma virus-MYXV-Tol identified in Iberian hares*. *Viruses*. 12: e340
20. Chabi-Jesus C, Najar A, Fontenele RS, Kumari SG, Ramos-González PL, Freitas-Astúa J, Kraberger S, **Varsani A**. **2020**. *Viruses representing two new genomoviruses species identified in citrus from Tunisia*. *Arch. Virol.* 165: 1225-1229
21. Claverie S, **Varsani A**, Hoareau M, Filloux D, Roumagnac P, Martin DP, Lefeuvre P, Lett J-M. **2020**. *Sorghum mastrevirus-associated alphasatellites: new geminialphasatellites associated with an African streak mastrevirus infecting wild Poaceae plants on Reunion Island*. *Arch Virol.* 165:1925-1928
22. de la Higuera I, Kasun GW, Torrance EL, Pratt AA, Maluenda A, Colombet J, Bisseux M, Ravet V, Dayaram A, Stainton D, Kraberger S, Zawar-Reza P, Goldstien S, Briskie JV, White R, Taylor H, Gomez C, Ainley DG, Harding JS, Fontenele RS, Schreck J, Ribeiro SG, Oswald SA, Arnold JM, Enault F, **Varsani A**, Stedman KM. **2020**. *Unveiling Crucivirus Diversity by Mining Metagenomic Data*. *mBio* 11: e01410-20.
23. Fontenele RS, Salywon AM, Majure LC, Cobb IN, Bhaskara A, Schmidlin K, Avalos-Calleros JA, Argüello-Astorga GR, Khalifeh A, Smith K, Schreck J, Lund M, Köhler M, Wojciechowski MF, Hodgson WC, Puente-Martinez RS, Van Doorslaer K, Kumari S, Vernière C, Filloux D, Roumagnac P, Lefeuvre P, Ribeiro SG, Kraberger S, Martin DP, **Varsani A**. **2020**. *A novel divergent geminivirus identified in asymptomatic New World Cactaceae plants*. *Viruses*. 12: e398
24. Fontenele RS, Roumagnac P, Richet C, Kraberger S, Stainton D, Aleamotu'a M, Filloux D, Bernardo P, Harkins GW, McCarthy J, Charles LS, Lamas NS, Abreu EFM, Abreu RA, Batista GB, Lacerda ALM, Salywon A, Wojciechowski MF, Majure LC, Martin DP, Ribeiro SG, Lefeuvre P, **Varsani A**. **2020**. *Diverse genomoviruses representing twenty-nine species identified associated with plants*. *Arch Virol.* 165: 2891-2901
25. Gorbalenya AE, Krupovic M, Mushegian M, Kropinski AM, Siddell S, **Varsani A**, Adams MJ, Davison AJ, Dutilh BE, Harrach B, Harrison RL, Junglen S, King AMQ, Knowles NJ, Lefkowitz EJ, Nibert ML, Rubino L, Sabanadzovic S, Sanfaçon H, Simmonds P, Walker PJ, Zerbini FM, Kuhn JH. **2020**. *The new scope of virus taxonomy: partitioning the virosphere into 15 hierarchical ranks*. *Nature Micro.* 5: 668-674
26. Hamdi I, Najar A, Ben Ghanem H, **Varsani A**, Jemmali A. **2020**. *First report of barley yellow dwarf virus in maize in Tunisia*. *J Plant Path.* 102: 227
27. Happel A-U, **Varsani A**, Balle C, Passmore J-A, Jaspan HB. **2020**. *The vaginal virome – balancing female genital tract bacteriome, mucosal immunity and sexual and reproductive health outcomes?* *Viruses*. 12: e832
28. Hasanvand V, Heydanejad J, Massumi H, Kleinow T, Jeske H, **Varsani A**. **2020**. *Isolation and characterization of a novel geminivirus from parsley*. *Virus Res.* 286: 198056
29. Hassan-Sheikhi P, Heydarnejad J, Massumi H, Kraberger S, **Varsani A**. **2020**. *Novel nanovirus and associated alphasatellites identified in milk vetch plants with chlorotic dwarf disease in Iran*. *Virus Res.* 276: 197830
30. Holland L, Kaelin E, Maqsood R, Estifanos B, Wu L, **Varsani A**, Halden R, Hogue B, Scotch M, and Lim E. **2020**. *An 81-nucleotide deletion in SARS-CoV-2 ORF7a identified from sentinel surveillance in Arizona (Jan-Mar 2020)*. *J Virol.* 94: e00711-20
31. Koonin EV, Dolja VV, Krupovic M, **Varsani A**, Wolf YI, Yutin N, Zerbini FM, Kuhn JH. **2020**. *Global Organization and Proposed Megataxonomy of the Virus World*. *Microbiol Mol Biol Rev.* 84: e0061-19
32. Kraberger S, Fountain-Jones NM, Gagne RB, Malmberg J, Dannemiller N, Logan K, Alldredge M, **Varsani A**, Crooks K, Craft M, Carver S, VandeWoude S. **2020**. *Frequent cross species transmissions of foamy virus between domestic and wild felids*. *Virus Evol* 6: vez058
33. Kraberger S, Mastroeni D, Delvaux E, **Varsani A**. **2020**. *Genome sequences of novel torque teno viruses identified in human brain tissue*. *Microbiol Res Announc.* 9: e00924-20
34. Krupovic M, **Varsani A**, Kazlauskas D, Breitbart M, Delwart E, Rosario K, Yutin N, Wolf YI, Harrach B, Zerbini FM, Dolja VV, Kuhn JH, Koonin EV. **2020**. *Cressdnaviricota: a virus phylum unifying 7 families of Rep-encoding viruses with single-stranded, circular DNA genomes*. *J. Virol.* 94:e00582-20
35. Kuhn JH, Adkins S, Alioto D, Alkhovsky SV, Amarasinghe GK, Anthony SJ, Avsic-Zupanc T, Ayllon MA, Bahl J, Balkema-Buschmann A, Ballinger MJ, Bartonicka T, Basler C, Bavari S, Beer M, Bente DA, Bergeron E, Bird BH,

- Blair C, Blasdell KR, Bradfute SB, Breyta R, Briese T, Brown PA, Buchholz UJ, Buchmeier MJ, Bukreyev A, Burt F, Buzkan N, Calisher CH, Cao M, Casas I, Chamberlain J, Chandran K, Charrel RN, Chen B, Chiumenti M, Choi IR, Clegg JCS, Crozier I, da Graca JV, Dal Bo E, Davila AMR, de la Torre JC, de Lamballerie X, de Swart RL, Di Bello PL, Di Paola N, Di Serio F, Dietzgen RG, Digiaro M, Dolja VV, Dolnik O, Drebot MA, Drexler JF, Durrwald R, Dufkova L, Dundon WG, Duprex WP, Dye JM, Easton AJ, Ebihara H, Elbeaino T, Ergunay K, Fernandes J, Fooks AR, Formenty PBH, Forth LF, Fouchier RAM, Freitas-Astua J, Gago-Zachert S, Gao GF, Garcia ML, Garcia-Sastre A, Garrison AR, Gbakima A, Goldstein T, Gonzalez JJ, Griffiths A, Groschup MH, Gunther S, Guterres A, Hall RA, Hammond J, Hassan M, Hepojoki J, Hepojoki S, Hetzel U, Hewson R, Hoffmann B, Hongo S, Hoper D, Horie M, Hughes HR, Hyndman TH, Jambai A, Jardim R, Jiang D, Jin Q, Jonson GB, Junglen S, Karadag S, Keller KE, Klempa B, Klingstrom J, Kobinger G, Kondo H, Koonin EV, Krupovic M, Kurath G, Kuzmin IV, Laenen L, Lamb RA, Lambert AJ, Langevin SL, Lee B, Lemos ERS, Leroy EM, Li D, Li J, Liang M, Liu W, Liu Y, Lukashevich IS, Maes P, Marciel de Souza W, Marklewitz M, Marshall SH, Martelli GP, Martin RR, Marzano SL, Massart S, McCauley JW, Mielke-Ehret N, Minafra A, Minutolo M, Mirazimi A, Muhlbach HP, Muhlberger E, Naidu R, Natsuaki T, Navarro B, Navarro JA, Netesov SV, Neumann G, Nowotny N, Nunes MRT, Nylund A, Okland AL, Oliveira RC, Palacios G, Pallas V, Palyi B, Papa A, Parrish CR, Pauvolid-Correa A, Paweska JT, Payne S, Perez DR, Pfaff F, Radoshitzky SR, Rahman AU, Ramos-Gonzalez PL, Resende RO, Reyes CA, Rima BK, Romanowski V, Robles Luna G, Rota P, Rubbenstroth D, Runstadler JA, Ruzek D, Sabanadzovic S, Salat J, Sall AA, Salvato MS, Sarpkaya K, Sasaya T, Schwemmle M, Shabbir MZ, Shi X, Shi Z, Shirako Y, Simmonds P, Sirmarova J, Sironi M, Smither S, Smura T, Song JW, Spann KM, Spengler JR, Stenglein MD, Stone DM, Strakova P, Takada A, Tesh RB, Thornburg NJ, Tomonaga K, Tordo N, Towner JS, Turina M, Tzanetakis I, Ulrich RG, Vaira AM, van den Hoogen B, **Varsani A**, Vasilakis N, Verbeek M, Wahl V, Walker PJ, Wang H, Wang J, Wang X, Wang LF, Wei T, Wells H, Whitfield AE, Williams JV, Wolf YI, Wu Z, Yang X, Yang X, Yu X, Yutin N, Zerbini FM, Zhang T, Zhang YZ, Zhou G, Zhou X. **2020**. *2020 taxonomic update for phylum Negarnaviricota (Riboviria: Orthornavirae), including the large orders Bunyavirales and Mononegavirales*. Arch Virol. 165: 3023-3072
36. Levy H, Fiddaman SR, Djurhuus A, Black CE, Kraberger S, Smith AL, Hart T, **Varsani A**. **2020**. *Identification of Circovirus Genome in a Chinstrap Penguin (*Pygoscelis antarcticus*) and Adélie Penguin (*Pygoscelis adeliae*) on the Antarctic Peninsula*. Viruses. 12: e858
37. Levy H, Fontenele RS, Harding C, Suazo C, Kraberger S, Schmidlin K, Djurhuus A, Black CE, Hart T, Smith AL, **Varsani A**. **2020**. *Identification and distribution of novel Cressdnaviruses and circular molecules in four penguin species in South Georgia and the Antarctic Peninsula*. Viruses. 12: e1029
38. Massaro M, Ainley DG, Santora JA, Quillfeldt P, Lescroël A, Whitehead A, **Varsani A**, Ballard G, Lyver POB. **2020**. *Diet segregation in Adélie Penguins: some individuals attempt to overcome colony induced and annual foraging challenges* Mar Ecol Prog Ser. 645: 205-218
39. Monjane AL, Dellicour S, Hartnady P, Oyeniran KA, Owor BE, Bezeidenhout M, Linderme D, Syed RA, Donaldson L, Murray S, Rybicki EP, Kvarnheden A, Yazdkhasti E, Lefeuvre P, Froissart R, Roumagnac P, Shepherd DN, Harkins GW, Suchard M, Lemey P, **Varsani A**, Martin DP. **2020**. *Symptom evolution following the emergence of maize streak virus*. eLife. 9: e51984
40. Moraru C, **Varsani A**, Kropinski A. **2020**. *VIRIDIC – a novel tool to calculate the intergenomic similarities of prokaryote-infecting viruses*. Viruses. 12: e1268
41. Orton J, Morales M, Fontenele RS, Schmidlin K, Kraberger S, Leavitt D, Webster T, Wilson M, Kusumi K, Dolby GA, **Varsani A**. **2020**. *Virus discovery in desert tortoises fecal samples: Novel circular single stranded DNA viruses*. Viruses 143: v12020143.
42. Payne N, Kraberger S, Fontenele RS, Schmidlin K, Bergeman MH, Cassaigne I, Culver M, **Varsani A**, Van Doorslaer K. **2020**. *Novel circoviruses detected in feces of Sonoran felids*. Viruses. 12, e1027
43. Pinheiro-Lima B, Pereira-Carvalho RC, Alves-Freitas DMT, Kitajima EW, Vidal AH, Lacorte C, Godinho MT, Fontenele RS, Faria JC, Abreu EFM, **Varsani A**, Ribeiro SG, Melo FM. **2020**. *Transmission of the bean-associated cytorhabdovirus by the whitefly Bemisia tabaci MEAM1*. Viruses.12: e1028
44. Rodrigues TCS, Subramaniam K, **Varsani A**, McFadden G, Schaefer AM, Bossart GD, Romero CH, Waltzek TB. **2020**. *Genome characterization of cetaceanpox virus from a managed Indo-Pacific bottlenose dolphin (*Tursiops aduncus*)*. Virus Res. 278: e197861
45. Saad N, Alcalá-Briseño RI, Polston JE, Olmstead JW, **Varsani A**, Harmon PF. **2020**. *Blueberry red ringspot virus genomes from Florida inferred through analysis of blueberry root transcriptomes*. Sci Rep. 10: e12043
46. Scotch M, Halden RU, Denton A, Sandrolini H, Fontenele RS, **Varsani A**. **2020**. *Coding-complete genome sequence of a human respirovirus 1 strain from a clinical sample in Arizona*. Microbiol Res Announc. 9: e00465-20
47. Siddell SG, Walker PJ, Lefkowitz EJ, Mushegian AR, Dutilh BE, Harrach B, Harrison RL, Junglen S, Knowles NJ, Kropinski AM, Krupovic M, Kuhn JH, Nibert ML, Rubino L, Sabanadzovic S, Simmonds P, **Varsani A**, Zerbini FM, Davison AJ. **2020**. *Binomial nomenclature for virus species: a consultation*. Arch. Virol. 165: 519-525
48. Tisza MJ, Pastrana DV, Welch NL, Stewart B, Peretti A, Starrett GJ, Pang Y-YS, Krishnamurthy SR, Pesavento PA, McDermott MH, Murphy PM, Whited JL, Miller B, Brenchley JM, Rosshart SP, Reherrmann B, Doorbar J, Ta'ala BA, Pletnikova O, Troncosa J, Resnick SM, Bolduc B, Sullivan MB, **Varsani A**, Segall AM, Buck CB. **2020**. *Discovery of several thousand highly diverse circular DNA viruses*. eLife. 9: e51971

49. Yaron JR, Ambadapadi S, Zhang L, Chavan RN, Tibbetts, SA, Keinan S, **Varsani A**, Maldonado J, Kraberger S, Tafoya AM, Bullard W, Kilbourne J, Stern-Harbutte A, Krajalnik-Brown R, Munk BH, Koppang, EO, Lim ES, Lucas AR. **2020**. *Immune protection is dependent on the gut microbiome in a lethal mouse gammaherpesviral infection*. Sci Rep. 10: 2371
50. Walker PJ, Siddell SG, Lefkowitz EJ, Mushegian AR, Adriaenssens EM, Dempsey DM, Dutilh BE, Harrach B, Harrison RL, Hendrickson RC, Junglen S, Knowles NJ, Kropinski AM, Krupovic M, Kuhn JH, Nibert M, Orton RJ, Rubino L, Sabanadzovic S, Simmonds P, Smith DB, **Varsani A**, Zerbini FM, Davison AJ. **2020**. *Changes to virus taxonomy and the Statutes ratified by the International Committee on Taxonomy of Viruses (2020)*. Arch Virol. 165: 2737–2748
51. Águeda-Pinto A, Lemos de Matos A, Abrantes A, Kraberger S, Risalde MA, Gortázar C, McFadden G, **Varsani A**, Esteves PJ. **2019**. *Genetic characterization of a recombinant myxoma virus in the Iberian hare (*Lepus granatensis*)*. Viruses 11: e530
52. Calisher CH, Briese T, Rodney Brister J, Charrel RN, Durrwald R, Ebihara H, Fulhorst CF, Fu Gao G, Groschup MH, Haddow AD, Hyndman TH, Junglen S, Klempa B, Klingstrom J, Kropinski AM, Krupovic M, LaBeaud AD, Maes P, Nowotny N, Roberto Teixeira Nunes M, Payne SL, Radoshitzky SR, Rubenstroth D, Sabanadzovic S, Sasaya T, Stenglein MD, **Varsani A**, Wahl V, Weaver SC, Zerbini FM, Vasilakis N, Kuhn JH. **2019**. *Strengthening the Interaction of the Virology Community with the International Committee on Taxonomy of Viruses (ICTV) by Linking Virus Names and Their Abbreviations to Virus Species*. Syst Biol. 65: 828-839
53. Claverie S, Ouattara A, Hartnady P, Hoarau M, Filloux D, **Varsani A**, Roumagnac P, Martin DP, Lett J-M, Lefevre P. **2019**. *Exploring the diversity of Poaceae-infecting mastreviruses from Reunion Island using a viral metagenomics-based approach*. Sci Rep. 9:e12716
54. Fontenele RS, Lacorte C, Lamas NS, Schmidlin K, **Varsani A**, Ribeiro SG. **2019**. *Single stranded DNA viruses associated with capybara faeces sampled in Brazil*. Viruses. 11: e710
55. Kazlauskas D, **Varsani A**, Koonin E, Krupovic M. **2019**. *Multiple origins of prokaryotic and eukaryotic ssDNA viruses from bacterial plasmids*. Nat. Commun. 10: e3425
56. Kraberger S, Cook C, Schmidlin K, Fontenele RS, Bautista J, Smith B, **Varsani A**. **2019**. *Diverse single-stranded DNA viruses associated with honey bees (*Apis mellifera*)*. Infect Genet Evol. 71:179-188
57. Kraberger S, Serieys L, Fountain-Jones NM, Packer C, Riley S, **Varsani A**. **2019**. *Novel smacoviruses identified in two free-roaming felids: the North American bobcat and African lion*. Arch Virol. 164: 2395-2399
58. Kraberger S, Schmidlin K, Fontenele RS, Walters M, **Varsani A**. **2019**. *Unravelling the single-stranded DNA virome of the New Zealand blackfly*. Viruses 11, e532
59. Lefevre P, Martin DP, Elena SF, Shepherd DN, Roumagnac P, **Varsani A**. **2019**. *Evolution and ecology of plant viruses*. Nat. Rev. Microbiol. 17, 632-644
60. Lescroël A, Ballard A, Massaro M, Dugger K, Jennings S, Pollard A, Porzig L, Schmidt A, **Varsani A**, Grémillet D, Ainley D. **2019**. *Evidence of age-related improvement in the foraging efficiency of Adélie penguins*. Sci Rep. 9:3375
61. Mangeli F, Massumi H, Alipour F, Heydarnejad J, Pour AH, Motlagh MHA, Morteza A, Maddahian M, **Varsani A**. **2019**. *Molecular and biological characterisation of the coat protein sequences of Iranian alfalfa mosaic virus isolates*. J Plant Path. 101:735-742
62. Morandini V, Dugger K, Ballard G, Elrod M, Schmidt A, Ruoppolo V, Lescroël A, Jongsomjit D, Massaro M, Pennycook J, Kooyman GL, Schmidlin K, Kraberger S, Ainley DG, **Varsani A**. **2019**. *Identification of a novel Adélie penguin circovirus at Cape Crozier (Ross Island, Antarctica)*. Viruses. 11, e1088
63. May A, Narayanan S, Alcock J, **Varsani A**, Maley C, Aktipis A. **2019**. *Kombucha: A novel model system for cooperation and conflict in a complex multi-species microbial ecosystem*. PeerJ. 7:e7565
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4. Sommers P, Chatterjee A, **Varsani A**, Trubl G. **2021**. *Integrating viral metagenomics into an ecological framework*. Annu Rev Virol. Doi: 10.1146/annurev-virology-010421-053015

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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.
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