Dr Arvind Varsani

Current Address:
The Biodesign Institute and School of Life Sciences
Arizona State University
1001 S. McAllister Ave
Tempe, AZ 85287-5001
USA

Tel No.: +1 480-727-2093
Cell No.: +1 480-410-9366

E-mail: arvind.varsani@asu.edu

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 Center of Fundamental and Applied Microbiomics, The Biodesign Institute and the School of Life Sciences.

02/09 – 07/16 University of Canterbury, Christchurch, New Zealand
Senior lecturer/ researcher 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.

ASSOCIATE RESEARCH POSITIONS

- **Honorary research associate** (2009 – current)
  Structural Biology Research Unit, University of Cape Town, Cape Town, South Africa
- **Courtesy research professor** (2014 – current)
  Department of Plant Pathology and Emerging Pathogens Institute, University of Florida, Gainesville, USA
- **Adjunct Associate professor** (2017 – current)
  School of Biological Sciences, University of Canterbury, Christchurch, New Zealand

AWARDS AND PRIZES (ACADEMIC)

- Patent incentive award from the South African Department of Science and Technology (DST) of US$ 2000 (2008)
- Patent incentive award from the South African Department of Science and Technology (DST) of US$ 2000 (2007)

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 next-generation sequencing, synthetic biology and bioinformatics. A brief overview of my current research projects is provided below.

- Darren Martin (author of the most widely used recombination detection software; South Africa) and I have set up a wide collaborative network of scientists world-wide to study viral evolution though recombination, viral phylogeography and global viral movement patterns of the plant-infecting geminiviruses and nanoviruses. While initially our research was based in Africa and South America, recently we have also focused on the Pacific region. As a team, Philippe Roumagnac, Pierre Lefeuvre, Darren Martin and I are attempting to identify drivers of plant viral emergence in ecosystems.
- In collaboration with Mya Breitbart, Karyna Rosario and Milen Marinov, I have embarked on a unique concept of using top end insect predators to sample viromes in various ecosystems. Additionally, my group has recently started looking at human and animal viruses vectored by black flies and mosquitoes in New Zealand and the pacific islands.
- I have an active avian circoviurs disease research program with the Department of Conservation of New Zealand, Parc Zoologique et Forestier (New Caledonia), Bethany Jackson (Murdoch University, Australia), Tomasz Stenzel (University of Warmia and Mazury, Poland) and Tomasz Piasecki (Wrocław University of Environmental and Life Sciences, Poland).
- I am running a variety of viral discovery projects associated with bark beetles in the US, fruit bats in the pacific island of Tonga, various fungi, farm animals, insects and molluscs in New Zealand.
- In a collaborative effort, David Ainley (penguin ecologist, USA), Grant Ballard (penguin ecologist, USA), Stacey Kim (marine ecologist, USA), Jennifer Burns (seal ecologist, USA) Melanie Massaro (avian ecologist, Australia), Joseph Levy (permafrost geologist, USA), William Davison (fish physiologist, New Zealand) and I are exploring the diversity of viral communities in the Antarctic.

RESEARCH COLLABORATORS

- **Darren Martin**, University of Cape Town, Cape Town, South Africa
- **Gordon Harkins**, University of the Western Cape, Bellville, South Africa
- **Dionne Shepherd**, University of Cape Town, Cape Town, South Africa
- **Trevor Sewell**, University of Cape Town, Cape Town, South Africa
- **Edward Rybicki**, University of Cape Town, Cape Town, South Africa
- **Salem Samtally**, Mauritian Sugar Industry Research Institute, Reduit, Mauritius
- **Sunday Oluwafemi**, Bowen University, Iwo, Nigeria
- **Innocent Zinga**, University of Bangui, Bangui, Central African Republic
- **Appolinaire Tange**, IRAD Yaounde, Cameroon
- **Fidèle Tiendrebeogo**, Université de Ouagadougou, Ouagadougou, Burkina Faso
- **Jahangir Heydarnejad**, Shahid Bahonar University of Kerman, Kerman, Iran
- **Safaa Kumari**, ICARDA, Tunis, Tunisia
- **Asma Najar,** National Institute of Agricultural Research, Tunisia
- **Rob Briddon**, National Institute for Biotechnology and Genetic Engineering, Faisalabad, Pakistan
- **Michel Peterschmitt**, CIRAD, Montpellier, France
- **Stephan Blanc**, INRA, Montpellier, France
- **Jean-Michel Lett**, CIRAD, Saint Pierre, La Réunion, France
- **Pierre Lefeuvre**, CIRAD, Saint Pierre, La Réunion, France
- **Phillipe Roumagnac**, CIRAD, Montpellier, France
- **Phillipe Lemey**, Katholieke Universiteit Leuven, Leuven, Belgium
- **Tomasz Piasecki**, Wrocław University of Environmental and Life Sciences, Wrocław, Poland
- **Tomasz Stenzel**, University of Warmia, Olsztyn, Poland
- **Keizo Nagasaki**, Fisheries Research Agency, Hiroshima, Japan
- **Murillo Zerbini**, Universidade Federal de Viçosa, Viçosa, Brazil
- **Alice Inoue-Nagata**, Embrapa Hortalic, Brasilia, Brazil
- **Simone da Graça Ribeiro**, Embrapa Hortalic, Brasilia, Brazil
- **John Thomas**, University of Queensland, Brisbane, Australia
- **Andrew Geering**, University of Queensland, Brisbane, Australia
- **Almudena Lorenzo**, Direction de l'Environnement de la Province Sud, Nouméa, New Caledonia
- **Liping Pang**, Environmental Science and Research, Christchurch, New Zealand
- **Kate McInnes**, Department of Conservation, New Zealand
- **Jon Harding,** University of Canterbury, New Zealand
- **Sharyn Goldstien**, University of Canterbury, New Zealand

- **Peyman Zawar Reza**, University of Canterbury, New Zealand
- **Christopher Gomez**, University of Canterbury, New Zealand
- **William Davison**, University of Canterbury, New Zealand
- **Christopher Buck,** National Institute of Health, USA
- **Koenraad van Doorslaer,** University of Arizona, USA
- **Jane Polston**, University of Florida, Gainesville, USA
- **Terry Ng**, Centre for Disease Control and Prevention, Atlanta, USA
- **Eric Delwart**, Blood Systems Research Institute, San Francisco, USA
- **Joseph Levy**, Institute for Geophysics, University of Texas, USA
- **David G Ainley**, HT Harvey and Associates, Los Gatos, USA
- **Grant Ballard**, Point Blue Conservation Science, Petaluma, USA
- **Stacy Kim**, Moss Landing Laboratories, Moss Landing, USA
- **Jennifer Burns**, University of Alaska, Anchorage, USA
- **Mya Breitbart**, University of South Florida, USA
- **Brian Smith,** Arizona State University, USA
- **Alexander Lucas**, Arizona State University, USA
- **Anne Stone**, Arizona State University, USA
- **Melissa Wilson-Sayres**, Arizona State University, USA

STUDENT SUPERVISION

University of Canterbury, New Zealand

PhD

Ms Daisy Stanton, **PhD in Microbiology** (2010-2015) – Primary supervisor
Towards understanding the evolution of Banana bunchy top virus and the detection of associated badnaviruses

Ms Anisha Dayaram, **PhD in Microbiology** (2011-2015) – Primary supervisor
Diversity of replication associated protein encoding viruses amongst top end insect predators and concentrators in ecosystems

Ms Simona Kraberger, **PhD in Microbiology** (2010-2015) - Primary supervisor
Towards understanding mastrevirus dynamics and the use of viral metagenomic approaches to identify novel gemini-like circular DNA viruses

Ms Kata Farkas**, PhD in Microbiology** (2011-2014) - Primary supervisor
Mimicking virus retention and transport in groundwater using surface charge-modified, DNA-labelled silica nanobeads

MSc

Ms Zoe Smeele, **MSc in Microbiology** (2017) – Primary supervisor
Identification of papillomaviruses in Weddell seals

Ms Judith Nonis, **MSc in Microbiology** (2015) – Co-supervisor
Bacteriophage as a biocontrol tool for foodborne pathogens

Ms Olivia Steel, **MSc in Microbiology** (2015) - Primary supervisor
Exploring the diversity of CRESS DNA viruses associated with the faecal matter of wild and domestic animals in New Zealand

Ms Maketalena Male, **MSc in Microbiology** (2015) - Primary supervisor
Identification of CRESS DNA viruses in faeces of Pacific flying foxes in the Tongan archipelago

Ms Alyssa Sikorski, **MSc in Microbiology** (2012 -2013) – Primary supervisor
Molecular characterisation of novel single-stranded DNA viruses recovered from animal faeces

Ms Carina Davis, **MSc in Microbiology** (2012-2013) – Co-supervisor
Metagenomic approaches to microbial source tracking

Ms Laurel Julian, **MSc in Microbiology** (2011-2012) - Primary supervisor
Analysis of genetic diversity and evolution through recombination of beak and feather disease virus

Mr Robert Lawry, **MSc in Microbiology** (2009-2010) - Primary supervisor
Diversity and evolution of geminiviruses

University of Cape Town, South Africa

PhD

Mr Adérito Monjane, **PhD in Molecular and Cell Biology** (2007- 2012) – Co-supervisor
Analysis of recombination and evolution of maize streak virus

MSc

Mr Kyle Dent, **MSc in Structural Biology** (2007-2009) – Co-supervisor
3D reconstruction of maize streak virus structure

Ms Jennifer Miller, **MSc in Structural Biology** (2006-2008) – Co-supervisor
Structural studies on Heterocapsa circularisquama RNA virus

Honours

Mr Alistair Gray, **Honours in Molecular and Cell Biology** (2008) – Co-supervisor
Characterisation of the D surface of nitrile hydratase of Bacillus pumilus

Mr Oliver Windram, **Honours in Molecular and Cell Biology** (2006) – Primary Supervisor
Preliminary investigation into the use of Human papillomavirus type 16 virus like particles as a delivery vector system for foreign proteins

Murdoch University, Australia

PhD

Ms Bethany Jackson, **PhD in Wildlife Diseases** (2011-2014) – Co-supervisor
Health and disease in kakariki (Cyanoramphus novaezelandiae) on Tiritiri Matangi Island: Implications of Beak and feather disease virus infection for conservation management

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.

PUBLICATIONS

H-Index: 38; i10-index: 106

1. Fahsbender, E., Burns, J.M., Kim, S., Kraberger, S., Frankfurter, G., Eilers, A., Shero, M., Beltran, R., Kirkham, A., McCorkell, R., Berngartt, R., Male, M.F., Ballard, G., Ainley, D.G., Breitbart, M., **Varsani, A**. (2017) *Diverse and highly recombinant anelloviruses associated with Weddell seals in Antarctica*. Virus Evolution. 3:vex017
2. Nonis, J., Premaratne, A., Billington, C., **Varsani, A.** (2017) *Genome of a podovirus (AAPEc6) isolated from wastewater in New Zealand that infects Escherichia coli O45:H10*. Genome Announcements. 5: e00462-17
3. Boukari, W., Alcalá-Briseño, R.I., Kraberger, S., Fernandez, E., Filloux, D., Daugrois, J-H., Comstock, J.C., Lett, J-M., Martin, D.P., **Varsani, A.**, Roumagnac, P., Polston, J.E., Rott, P.C. (2017) *Occurrence of a novel*

mastrevirus in sugarcane germplasm collections in Florida, Guadeloupe and Réunion. Virology Journal. 14:e146

4. Kraberger, S., Saumtally, S., Pande, D., Khoodoo, M.H.R., Dhayan, S., Dookun-Saumtally, A., Shepherd, D.N., Hartnady, P., Atkinson, A., Lakay, F., Hanson, B., Redhi, D., Monjane, A.L., Windram, O., Walter, M., Oluwafemi, O., Michel-Lett, J., Lefeurve, P., Martin, D.P., **Varsani, A**. (2017) *Molecular diversity, geographic distribution and host range of monocot-infecting mastreviruses in Africa and surrounding islands*. Virus Research. 238: 171-178

5. Kraberger, S., Geering, A.D.W., Walters, M., Martin, D.P., **Varsani, A.** (2017) *Novel mastreviruses identified in Australian wild rice*. Virus Research. 238: 193-197

6. Adams, M.J., Lefkowitz, E.J. King, A.M.Q., Harrach, B., Harrison, R., Knowles, N.J., Kropinski, A.M., Krupovic, M., Kuhn, J.H., Mushegian, A.R., Nibert, M., Sabanadzovic, S., Sanfaçon, H., Siddell, S.G., Simmonds, P., **Varsani, A**., Zerbini, F.M., Gorbalenya, A.E., Davison, A.J. (2017) *Changes to taxonomy and the International Code of Virus Classification and Nomenclature ratified by the International Committee on Taxonomy of Viruses*. Archives of Virology. 162:2505–2538

7. Susi, H., Laine, A-L., Filloux, D., Kraberger, S., Farkas, K., Bernardo, P., Frilander, M.J., Martin, D.P., **Varsani, A.**, Roumagnac, P. (2017) *Genome sequences of a capulavirus infecting Plantago lanceolata in the Åland archipelago of Finland*. Archives of Virology. 162: 2041-2045

8. **Varsani, A.**, Roumagnac, P., Fuchs, M., Navas-Castillo, J., Moriones, E., Idris, A., Briddon, R.W., Rivera-Bustamante, R., Zerbini, F.M., Martin, D.P. (2017) *Capulavirus and Grablovirus: Two new genera in the family Geminiviridae*. Archives of Virology. 162: 1819-1831

9. Kraberger, S., Polston, J.E., Capobianco, H.M., Alcalá-Briseño, R.I., Fontenele, R.S., **Varsani, A**. (2017) *Genomovirus genomes recovered from Echinothrips americanus sampled in Florida, USA*. Genome Announcements. 5:e00445-17

10. Ouattara, A., Tiendrébéogo, F., Lefeuvre, P., Hoareau, M., Traoré, E.V., Barro, N., Traoré, O., **Varsani, A.**, Lett, J-M. (2017) *New strains of chickpea chlorotic dwarf virus discovered on papaya and tomato in Burkina Faso*. Archives of Virology. 162: 1791-1794

11. Najar, A., Hamdi, I., **Varsani, A**. (2017) *Barley yellow dwarf virus in barley crops in Tunisia: prevalence and molecular characterization*. Phytopathologia Mediterranea. 56, 111−118

12. Postler, T.S., Clawson, A.N., Amarasinghe, G.K., Basler, C.F., Bavari, S., Benkő, M., Blasdell, K.R., Briese, T., Buchmeier, M.J., Bukreyev, A., Calisher, C.H., Chandran, K., Charrel, R., Clegg, C.S., Collins, P.L., de la Torre, J. C., DeRisi, J.L., Dietzgen, R.G., Dolnik, O., Dürrwald, R., Dye, J.M., Easton, A J., Emonet, S., Formenty, P., Fouchier, R. A. M., Ghedin, E., Gonzalez, J.-P., Harrach, B., Hewson, R., Horie, M., Jiāng, D., Kobinger, G., Kondo, H., Kropinski, A.M., Krupovic, M., Kurath, G., Lamb, R.A., Leroy, E.M., Lukashevich, I.S., Maisner, A., Mushegian, A.R., Netesov, S.V., Nowotny, N., Patterson, J.L., Payne, S.L., Paweska, J.T., Peters, C.J., Radoshitzky, S.R., Rima, B.K., Romanowski, V., Rubbenstroth, D., Sabanadzovic, S., Sanfaçon, H., Salvato, M. S., Schwemmle, M., Smither, S.J., Stenglein, M.D., Stone, D.M., Takada, A., Tesh, R.B., Tomonaga, K., Tordo, N., Towner, J.S., Vasilakis, N., Volchkov, V.E., Wahl-Jensen, V., Walker, P.J., Wang, L.F., **Varsani, A**., Whitfield, A.E., Zerbini, F.M., Kuhn, J.H. (2017). *Possibility and challenges of conversion of current virus species names to Linnaean binomials*. Systematic Biology. 66 (3): 463-473

13. Heydarnejad, J., Kamali, M., Massumi, H., Kvarnheden, A., Male, M.F., Kraberger. S., Stainton, D., Martin, D.P., **Varsani, A.** (2017) *Identification of a nanovirus-alphasatellite complex in Sophora alopecuroides*. Virus Research. 235: 24-32

14. Adams, M.J., Lefkowitz, E.J. King, A.M.Q., Harrach, B., Harrison, R., Knowles, N.J., Kropinski, A.M., Krupovic, M., Kuhn, J.H., Mushegian, A.R., Nibert, M., Sabanadzovic, S., Sanfaçon, H., Siddell, S.G., Simmonds, P., **Varsani, A.**, Zerbini, F.M., Orton, R.J., Smith, D.B., Gorbalenya, A.E., Davison, A.J. (2017) *50 years of formal virus taxonomy: overview and prospects*. Archives of Virology. 162: 1441-1446

15. **Varsani, A.**, Frankfurter, G., Stainton, D., Male, M.F., Kraberger, S., Burns, J.M. (2017) *Identification of a polyomavirus in a Weddell seal (Leptonychotes weddellii) from the Ross Sea (Antarctica)*. Archives of Virology 162: 1403-1407

16. Rosario, K., Breitbart, M., Harrach, B., Segalés, J., Delwart, E., Biagini, P., **Varsani, A.** (2017) *Revisiting the taxonomy of the family Circoviridae: Establishment of the genus Cyclovirus and removal of the genus Gyrovirus*. Archives of Virology 162:1447-1463

17. Godinhoa, M.T., Paula, D.P., **Varsani, A**., Ribeiro, S.G. (2017) *Genome sequence of Cauliflower mosaic virus identified in earwigs (Doru luteipes) through a metagenomic approach*. Genome Announcements. 11: e00043-17

18. Simmonds, P., Adams, M. J., Benkő, M., Breitbart, M., Brister, J. R., Carstens, E. B., Davison, A. J., Delwart, E., Gorbalenya, A. E., Harrach, B., Hull, R., King, A. M. Q., Koonin., E. V., Krupovic, M., Kuhn, J. H., Lefkowitz, E. J., Nibert, M. L., Orton, R., Roossinck, M. J., Sabanadzovic, S., Sullivan, M. B., Suttle, C. A., Tesh, R. B., van der Vlugt, R. A., **Varsani, A**., Zerbini, F. M. (2017). *Virus taxonomy in the age of metagenomics*. Nature Reviews Microbiology. 15: 161-168

19. Pang, L., Robson, B., Farkas, K., McGill, E., **Varsani, A.**, Gillot, L., Li, J., Abraham, P. (2017) *Tracking effluent discharges in undisturbed stony soil and alluvial gravel aquifer using synthetic DNA tracers.* Science of the Total Environment. 492: 144-152

20. Zerbini, F.M., Briddon, R.W., Idris, A., Martin, D.P., Moriones, E., Navas-Castillo, J., Rivera-Bustamante, R., Rougmanac. P., **Varsani, A.**, ICTV Report Consortium (2017) *ICTV Virus Taxonomy Profile: Geminiviridae*. Journal of General virology. 98:131–133

21. Stainton, D., Martin, D.P., Collings, D.A., **Varsani, A.** (2017) *Comparative analyses of common regions found in babuviruses and alphasatellite molecules*. Archives of Virology. 162:849-855

22. Walters, M., Bawuro, M., Christopher, A., Knight, A., Kraberger, S., Stainton, D., Chapman, H., **Varsani, A.** (2017) *Novel single-stranded DNA virus genomes recovered from chimpanzee faeces sampled from Mambilla Plateau in Nigeria*. Genome Announcements. 5: e01715-16

23. Kamali, M., Heydarnejad, J., Pouramini, N., Masumi, H., Farkas, K., Kraberger, S., **Varsani, A.** (2017) *Genome sequences of Beet curly top Iran virus, Oat dwarf virus, Turnip curly top virus, and Wheat dwarf virus identified in leafhoppers*. Genome Announcements. 5: e01674-16.

24. Kazlauskas, D., Dayaram, A., Kraberger, S., Goldstien, S., **Varsani, A.**, Krupovic, M. (2017) *Evolutionary history of ssDNA bacilladnaviruses features horizontal acquisition of the capsid protein gene from ssRNA nodaviruses*. Virology. 204: 114-121

25. Pande, D., Madzokere, E., Hartnady, P., Kraberger, S., Hadfield, J., Rosario, K., Jäschke. A., Monjane, A.L., Dida, M.M., Shepherd, D.N., Martin, D.P., **Varsani, A.**, Harkins, G.W. (2017) *The role of Kenya in the trans-African spread of maize streak virus strain A*. Virus Research. 232: 69-76

26. **Varsani, A**., Krupovic, M. (2017) *Sequence-based taxonomic framework for the classification of uncultured single-stranded DNA viruses of the family Genomoviridae*. Virus Evolution. 3: vew037

27. Mabvakure, B., Martin, D.P., Kraberger, S., Cloete, L., van Brunschot, S., Geering, A.D., Thomas, J.E., Bananej, K., Lett, J-M., Lefeuvre, P., **Varsani, A.**, Harkins, G.W. (2016) *Ongoing geographical spread of Tomato yellow leaf curl virus*. Virology. 498: 257–264

28. Lamas, N.S., Fontenele, R.S., Melo, F.L., Costa, A.F., **Varsani, A.**, Ribeiro, S.G. (2016) *Complete sequence of a genomovirus associated with common bean plant leaves in Brazil*. Genome Announcements. 4:e01247-16

29. Bananej, K., Kraberger, K., **Varsani, A**. (2016) Okra enation leaf curl virus in papaya from Iran displaying severe leaf curl symptoms. Journal of Plant Pathology 98, 637-639

30. Frost, C.M., Peralta. G., Rand, T.A., Didham, R.K., **Varsani, A.**, Tylianakis, J. (2016) *Apparent competition drives community-wide attack rates across ecosystem boundaries*. Nature Communications. 7: e12644

31. De Bruyn, A., Harimalala, M., Zinga, I., Mabvakure, B.M., Hoareau, M., Ravigné, V., Walters, M., Reynaud, B., **Varsani, A**., Harkins, G.W., Martin, D.P., Lett, J-M., Lefeuvre, P. (2016) *Divergent evolutionary and epidemiological dynamics of cassava mosaic geminiviruses in Madagascar*. BMC Evolutionary Biology. 16: e182

32. Adams, M.J., Lefkowitz, E.J., King, A.M.Q., Harrach, B., Harrison, R.L., Knowles, N.J., Kropinski, A.M., Krupovic, M., Kuhn, J.H., Mushegian, A.R., Nibert, M., Sabanadzovic, S., Sanfaçon, H., Siddell, S.G., Simmonds, P., **Varsani, A.**, Zerbini, F.M., Gorbalenya, A.E., Davison, A.J. (2016) *Ratification vote on taxonomic proposals to the International Committee on Taxonomy of Viruses* (2016). Archives of Virology. 161:2921–2949

33. Krupovic, M., Ghabrial, S.A., Jiang, D., **Varsani, A**. (2016) *Genomoviridae: a new family of widespread single-stranded DNA viruses*. Archives of virology. 161:2633–2643

34. Steel, O., Kraberger, S., Sikorski, A., Young, L.M., Catchpole, R.J., Stevens, A.J., Ladley, J.J., Coray, D.S., Stainton, D., Dayaram, A., Julian, L., van Bysterveldt, K., **Varsani, A.** (2016) *Circular replication-associated protein encoding DNA viruses identified in the faecal matter of various animals in New Zealand*. Infection, Genetics and Evolution. 43, 151-164

35. Khalifa, M., **Varsani, A.**, Ganley, A.R.D., Pearson, M.N. (2016) *Comparison of Illumina de novo assembled and Sanger sequenced viral genomes: A case study for RNA viruses recovered from the plant pathogenic fungus Sclerotinia sclerotiorum*. Virus Research. 219, 51-57

36. Buck, C., Van Doorslaer, K., Peretti, A., Geoghegan, E.M., Tisza, M.J., An, P., Katz, J.P., Pipas, J.M., McBride, A.A., Camus, A.C., McDermott, A.J., Dill, J.A., Delwart., E., Ng., T.F.F., Farkas, K., Austin, C., Kraberger, S., Davison, W., Pastrana, D.V., **Varsani, A.** (2016) *The ancient evolutionary history of polyomaviruses*. PloS Pathogens. 12(4): e1005574

37. Howles, P.A., Gebbie, L.K., Collings, D.A., **Varsani, A.**, Broad, R.C., Ohms, S., Birch, R.J., Cork, A.H., Arioli, T., Williamson, R.E. (2016) *A temperature-sensitive allele of a putative mRNA splicing helicase down-regulates many cell wall genes and causes radial swelling in Arabidopsis thaliana*. Plant Molecular Biology. 91(1):1-13

38. Bernardo, P., Muhire, B., François, S., Deshoux, M., Hartnady, P., Farkas, K., Kraberger, K., Filloux, D., Fernandez, E., Galzi, S., Ferdinand, R., Granier, M., Marais, A., Monge Blasco, P., Candresse, T., Escriu, F., **Varsani, A.**, Harkins, G.W., Martin, D.P., Roumagnac, P. (2016) *Molecular characterization and prevalence of two capulaviruses: Alfalfa leaf curl virus from France and Euphorbia caput-medusae latent virus from South Africa*. Virology. 493, 142-153

39. Stainton, D., Martin, D.P., Collings, D.A., Thomas, J.E., **Varsani, A.** (2016) *Identification of defective molecules associated with isolates of Banana bunchy top virus*. Archives of Virology. 161, 1019–1026

40. Knafler, G.J., Ortiz-Catedral, L., Jackson, B., **Varsani, A.**, Grueber, C.E., Robertson, B.C., Jamieson, I.G. (2016) *Comparison of beak and feather disease virus prevalence and immunity-associated genetic diversity over time in an island population of red-crowned parakeets*. Archives of Virology. 161, 811–820

41. Jennings, S., **Varsani, A.**, Dugger, K.M., Ballard, G., Ainley, D.G. (2016) *Sex-based differences in Adélie penguin (Pygoscelis adeliae) chick growth rates and diet*. PloS One. 11, e0149090

42. Kamali, M., Heydarnejad, J., Massumi, H., Kvarnheden, A., Kraberger, S., **Varsani, A**. (2016) *Molecular diversity of turncurtoviruses in Iran*. Archives of Virology. 161, 551-561

43. Male, M.F., Kraberger, S., Stainton, D., Kami, V., **Varsani, A.** (2016) *Cycloviruses, gemycircularviruses and other novel replication-associated protein encoding circular viruses in Pacific flying fox (Pteropus tonganus) faeces*. Infection, genetics and evolution. 39, 279-292

44. Dayaram, A., Galatowitsch, M.L., Argüello-Astorga, G.R., van Bysterveldt, K., Kraberger, S., Stainton, D., Harding, J.S., Roumagnac, P., Martin, D.P., Lefeuvre, P., **Varsani, A.** (2016) *Diverse circular replication-associated protein encoding viruses circulating in invertebrates within a lake ecosystem*. Infection, genetics and evolution. 39, 304-316

45. Rosario, K., Marr, C., **Varsani, A.**, Kraberger, S., Stainton, D., Moriones, E., Polston, J.E., Breitbart, M. (2016) *Begomovirus-associated satellite DNA diversity captured through vector-enabled metagenomic (VEM) surveys using whiteflies (Aleyrodidae)*. Viruses. 8, e36.

46. Marinov, M., Amaya-Perilla, C., Holwell, G.I., **Varsani, A.**, van Bysterveldt, K., Kraberger, S., Stainton, D., Dayaram, A., Curtis, N., Cruickshank, R.H., Paterson, A. (2016) *Geometric morphometrics and molecular systematics of Xanthocnemis sobrina (McLachlan, 1873) (Odonata: Coenagrionidae) and comparison to its congeneric*. Zootaxa. 4078 (1), 84-120

47. Stainton, D., Martin, D.P., Muhire, B.M., Lolohea, S., Halafihi, M., Lepoint, P., Blomme, B., Crew, K.S., Sharman, M., Kraberger, S., Dayaram, A., Walters, M., Collings, D.A., Mabvakure, B., Lemey, P., Harkins, G.W., Thomas, J.E., **Varsani, A.** (2015) *The global distribution of Banana bunchy top virus reveals little evidence for frequent recent, human-mediated long distance dispersal events*. Virus Evolution. 1(1):1-16 vev009

48. Esmaeili, M., Heydarnejad, J., Massumi, H., **Varsani, A.** (2015) *Analysis of watermelon chlorotic stunt virus and tomato leaf curl Palampur virus mixed and pseudo-recombination infections*. Virus Genes 51, 408–416

49. Rosario, K., Seah, Y.M., Marr, C., **Varsani, A.**, Kraberger, S., Stainton, D., Moriones, E. Polston, J.E., Duffy, S., Breitbart, M. (2015) *Vector-enabled metagenomic (VEM) surveys using whiteflies (Aleyrodidae) reveal novel begomovirus species in the New and Old Worlds.* Viruses. 7: 5553–5570

50. Roumagnac, P., Granier, M., Bernardo, P., Deshoux, M., Ferdinand, R., Galzi, S., Fernandez, E., Julian, C., Abt, I., Filloux, D., Mesléard, F., **Varsani, A.**, Blanc, S., Martin, D.P., Peterschmitt, M. (2015) *Alfalfa leaf curl virus: An aphid transmitted geminivirus*. Journal of Virology. 89: 9683-9688

51. Kumari, S., Najar, A., Timoumi, S., Male, M.F., Kraberger, S., **Varsani, A.** (2015) *First report of Chickpea chlorotic dwarf virus naturally infecting chickpea in Tunisia*. New Disease Reports. 32, 16

52. Male, M.F., Kami, V., Kraberger, S., **Varsani, A**. (2015) *Genomes of Poaceae-associated gemycirularviruses from the Pacific Ocean Island of Tonga.* Genome Announcements. 3: e01144-15

53. Dayaram, A., Piasecki, T., Chrząstek, K., White, R., Julian, L., van Bysterveldt, K., **Varsani, A**. (2015) *Avian polyomavirus genome sequences recovered from parrots in captive breeding facilities in Poland.* Genome Announcements. 3: e00986-15

54. Jackson, B., **Varsani, A**., Holyoake, C., Jakob-Hoff, R., Roberson, I., McInnes, K., Empson, R., Gray, R., Nakagawa, K., Warren, K. (2015) *Emerging infectious disease or evidence of endemicity? A multi season study of Beak and feather disease virus in wild Red-crowned Parakeets (Cyanoramphus novaezelandiae*). Archives of Virology. 160: 2283-2351

55. Fahsbender, E., Hewson, I., Rosario, K., Tuttle, A.D., **Varsani, A.**, Breitbart, M. (2015) *Discovery of a novel circular DNA virus in the Forbes sea star, Asterias forbesi*. Archives of Virology 160:2349-2351

56. Farkas, K., **Varsani, A.,** Pang, L. (2015) *Adsorption of rotavirus, MS2 bacteriophage and surface-modified silica nanoparticles to hydrophobic matter.* Food and Environmental Virology. 7: 261-268

57. Stenzel, T., Farkas, K., **Varsani, A**. (2015) *Genome of a diverse Goose circovirus recovered from greylag goose*. Genome announcements. 3: e00767-15

58. Jackson, B., Heath, A., Harvey, C., Holyoake, C., Jakob-Hoff, R., **Varsani, A.**, Roberson, I., Warren, K. (2015) *Knemidokoptinid (Epidermoptidae: Knemidokoptinae) mite infestation in wild red-crowned parakeets (Cyanoramphus novaezelandiae): correlations between macroscopic and microscopic findings.* Journal of Wildlife Diseases. 51: 651-663

59. Stainton, D., Halafihi, M., Collings D. A., **Varsani, A.** (2015) *Genome of Banana streak MY virus from the Pacific Ocean island of Tonga*. Genome announcements. 3: e00543-15

60. Brown, J.K., Zerbini, F.M., Navaz-Castillo, J., Moriones, E., Ramos-Sobrinho, R., Silva, J.C.F., Fiallo-Olivé, E., Briddon, R.W., Hernández-Zepeda, C., Idris, A., Malathi, V.G., Martin, D.P., Rivera-Bustamante, R., Ueda, S., **Varsani, A**. (2015) *Revision of Begomovirus taxonomy based on pairwise sequence comparisons*. Archives of Virology. 160:1593–1619

61. Collings, D.A., Collings, B.G., Julian, L., Kurenbach, B., **Varsani A**. (2015) *Genome sequences of Beak and feather disease virus in urban Rainbow lorikeets (Trichoglossus haematodus)*. Genome Announcements. 3: e00283-15

62. Kraberger, S., Farkas, K., Bernardo, P., Booker, C., Argüello-Astorga, G.R., Mesléard, F., Martin, D.P., Roumagnac, P., **Varsani, A**. (2015*) Identification of novel Bromus and Trifolium associated circular DNA viruses*. Archives of Virology. 160: 1303-1311

63. **Varsani, A.,** Porzig, E.L., Jennings, S., Kraberger, S., Farkas, K., Julian, L., Massaro, M., Ballard, G., Ainley, A.G. (2015) *Identification of an avian polyomavirus associated with Adélie penguins (Pygoscelis adeliae)*. Journal of General Virology. 96: 851-857

64. Dayaram, A., Goldstien, S., Argüello-Astorga, G. R., Zawar-Reza, P., Gomez, C., Harding, J.S., **Varsani, A**. (2015) *Diverse small circular DNA viruses circulating amongst estuarine molluscs*. Infection, Genetics and Evolution. 31: 284-295

65. Kraberger, S., Mumtaz, H., Claverie, S., Martin, D.P., Briddon, R., **Varsani, A**. (2015) *Identification of an Australian-like dicot-infecting mastrevirus in Pakistan*. Archives of Virology. 160: 825-830

66. Peralta. G., Frost, C.M., Didham, R.K., **Varsani, A.**, Tylianakis, J.M. (2015) *Phylogenetic diversity and co-evolutionary signals among trophic levels change across a habitat edge.* Journal of Animal Ecology. 84: 364-372

67. Kraberger, S., Argüello-Astorga, G. R., Greenfield, L.G., Galilee, C., Law, D., Martin, D.P., **Varsani, A**. (2015) *Characterisation of a diverse range of circular replication-associated protein encoding DNA viruses recovered from a sewage treatment oxidation pond*. Infection, Genetics and Evolution. 31: 73-86

68. Oppong, A., Offei, S.K., Ofori, K., Adu-Dapaah, H., Lamptey, J.N.L., Kurenbach, B., Walters, M., Shepherd, D.N., Martin, D.P., **Varsani, A**. (2015) *Mapping the distribution of Maize streak virus genotypes across the forest and transition zones of Ghana*. Archives of Virology. 160:483-492

69. Dayaram, A., Potter, K., Pailes, R., Marinov, M., Rosenstein, D.D., **Varsani, A** (2015) *Identification of diverse circular single-stranded DNA viruses in adult dragonflies and damselflies (Insecta: Odonata) of Arizona and Oklahoma, USA*. Infection, Genetics and Evolution. 30: 278-287

70. Farkas, K., **Varsani, A.**, Marjoshi, D., Easingwood, R, McGill, E., Pang, L. (2015) *Size exclusion-based purification and PCR-based quantitation of MS2 bacteriophage particles for environmental applications*. Journal of Virological Methods. 213: 135-138

71. Kraberger, S., Kumari, S.G., Hamed, A.A., Gronenborn, B., Thomas, J. E., Sharman, M., Harkins, G.W., Muhire, B.M., Martin, D.P., **Varsani, A.** (2015) *Molecular diversity of Chickpea chlorotic dwarf virus in Sudan: high rates of intra-species recombination a driving force in the emergence of new strains*. Infection, Genetics and Evolution 29: 203-215

72. Ng, T.F.F., Chen, L-F., Zhou, Y., Shapiro, B., Stiller, M., Heintzman, P.D., **Varsani, A**., Kondov, N.O., Wong, W., Deng, X., Andrews, T.D., Moorman, B. J., Meulendyk, T., MacKay, G., Gilbertson, R., Delwart, E. (2014) *Preservation of viral genomes in 700-y-old caribou feces from a subarctic ice patch.* Proceeding of the National Academy of Sciences of the United States of America 111 (47): 16842-16847

73. Muhire, B.M., **Varsani, A.**, Martin, D.P. (2014) *SDT: A Virus Classification Tool Based on Pairwise Sequence Alignment and Identity Calculation*. PLoS One 9 (9): e108277

74. Oluwafemi, S., Kraberger, S., Shepherd, D.N., Martin, D.P., **Varsani, A**. (2014) *A high degree of African streak virus diversity within Nigerian maize fields includes a new mastrevirus species from Axonopus compressus*. Archives of virology 159: 2765-2770

75. Shepherd, D.N., Dugdale, B., Martin, D.P., **Varsani, A**., Lakay, F.M., Bezuidenhout, M.E., Monjane, A.L., Thomson, J.A., Dale, J.L., Rybicki, E.P. (2014) *Inducible resistance to Maize streak virus*. PLoS One 9(8): e105932

76. Massumi, H., Poormohammadi, S., Pishyar, S., Maddahian, M., Heydarnejad, J., Hosseini-Pour, A., van Bysterveldt, K., **Varsani, A** (2014) Molecular characterization and field survey of Iranian potato virus X isolates. VirusDisease 25:338-344

77. Jackson, B., Harvey, C., Galbraith, J., Robertson, M., Warren, K., Holyoake, C., Julian, L., **Varsani, A**. (2014) *Clinical beak and feather disease virus (BFDV) infection in wild juvenile eastern rosellas of New Zealand; biosecurity implications for wildlife care facilities*. New Zealand Veterinary Journal 62: 297-301

78. Jackson, B., Lorenzo, A., Theuerkauf, J., Barnard, A., Ducal, T., Guichard, P., Bloc, H., Baouma, A., Stainton, D., Kraberger, A., Murphy, S., Clark, N., Dillon, C., Knight, T., **Varsani, A**. (2014) *Preliminary surveillance for beak and feather disease virus in wild parrots of New Caledonia: implications of a reservoir species for Ouvea Parakeets.* EMU Journal 114: 283–289

79. Amaya-Perilla, C., Marinov, M., Holwell, G., **Varsani, A.**, Stainton, D., Kraberger, S., Dayaram, A., Curtis, N., Cruickshank, R., Paterson, A. (2014) *Comparative study of the Chatham Islands Odonata, II: Morphometric and molecular comparison between Xanthocnemis tuanuii Rowe, 1981 and X. zealandica (McLachlan, 1873) with notes on the taxonomic position of Xanthocnemis sinclairi Rowe, 1987 (Zygoptera: Coenagrionidae)*. International Dragonfly Fund - Report 75: 1-27

80. Candresse, T., Filloux,D., Muhire, B., Julian, C., Galzi, S., Fort, G., Bernardo, P., Daugrois,J.H., Fernandez, E., Martin, D.P., **Varsani, A.**, Roumagnac, P. (2014) *Appearances can be deceptive: Revealing a hidden viral infection with deep sequencing in a plant quarantine context*. PLoS One 9(7): e102945

81. **Varsani, A.**, Navaz-Castillo, J., Moriones, E., Hernández-Zepeda, C., Idris, A., Brown, J.K., Zerbini, F.M., Martin, D.P. (2014) *Establishment of three new genera in the family Geminiviridae: Becurtovirus, Eragrovirus and Turncurtovirus.* Archives of Virology 159:2193-2203

82. **Varsani, A.,** Martin, D.P., Navaz-Castillo, J., Moriones, E., Hernández-Zepeda, C., Idris, A., Zerbini, F.M., Brown, J.K. (2014) *Revisiting the classification of curtoviruses based on genome-wide pairwise identity.* Archives of Virology 159:1873–1882

83. Pang, L., Farkas, K., Bennett, G., **Varsani, A.**, Easingwood, R., Tilley, R., Nowostawska, U., Lin, S. (2014) *Mimicking filtration and transport of rotavirus and adenovirus in sand media using DNA-labelled, protein-coated silica nanoparticles*. Water Research 62:167-179

84. Monjane, A.L., Martin, P., Lakay, F., Muhire, B., Pande, P., **Varsani, A.**, Harkins, G., Shepherd, D.N., Rybicki, E.P. (2014) *Extensive recombination–induced disruption of genetic interactions is highly deleterious but can be partially reversed by small numbers of secondary-recombination events*. Journal of Virology 88 (14): 7843-7851

85. Zawar-Reza, P., Argüello-Astorga, G. R., Kraberger, S., Julian, L., Stainton, D., Broady, P., **Varsani, A**. (2014) *Diverse small circular single-stranded DNA viruses identified in a freshwater pond on the McMurdo Ice Shelf (Antarctica).* Infection, Genetics and Evolution 26: 132-138

86. Du, Z., Tang, Y., Zhang, S., She, X., Lan, G., **Varsani, A.**, He, Z. (2014) *Identification and molecular characterization of a single-stranded circular DNA virus with similarities to Sclerotinia sclerotiorum hypovirulence-associated DNA 1*. Archives of Virology 159:1527–1531

87. **Varsani, A.,** Kraberger, S., Jennings, S., Porzig, E.L., Julian, L., Massaro, M., Pollard, A., Ballard, G., Ainley, A.G. (2014) *A novel papillomavirus in Adélie penguin (Pygoscelis adeliae) faeces sampled at the Cape Crozier colony, Antarctica*. Journal of General Virology 95: 1352-1365

88. Stenzel, T., Piasecki, T., Chrząstek, K., Julian, L., Muhire, B.M., Golden, M., Martin, D.P., **Varsani, A.** (2014) *Pigeon circoviruses display patterns of recombination, genomic secondary structure and selection similar to those of Beak and feather disease viruses*. Journal of General Virology 95: 1338-1351

89. Grigoras, I., del Cueto Ginzo, A.I., Martin, D.P., **Varsani, A.**, Romero, J., Mammadov, A.C., Huseynova, I.M., Aliyev, J.A., Kheyr-Pour, A., Huss, H., Zibell, H., Timchenko, T., Vetten, H-J., Gronenborn, B. (2014) *Genome complexity and evidence of recombination and reassortment in nanoviruses from Europe*. Journal of General Virology. 95: 1178-1191

90. Baron, H.R., Howe, L., **Varsani, A.**, Doneley, R.J.T. (2014) *Disease screening of three breeding populations of adult exhibition budgerigars (Mellopsittacus undulates) in New Zealand reveals a high prevalence of a novel Polyomavirus and avian malaria infection.* Avian Diseases 58:111-117

91. Dayaram, A., Galatowitsch, M., Harding, J.S., Argüello-Astorga, G.R., **Varsani, A.** (2014) *Novel circular DNA viruses identified in Procordulia grayi and Xanthocnemis zealandica larvae.* Infection, Genetics and Evolution 22: 134-141

92. Muhire, B.M., Golden,M., Murrell, B., Lefeuvre, P., Lett, J-M., Gray, A., Poon, A.Y.F., Ngandu, N.K., Semegni, Y., Tanov, E.P., Monjane, A.L., Harkins, G.W., **Varsani, A.**, Shepherd, D.N., Martin, D.P. (2014) *Evidence of pervasive biologically functional secondary-structures within the genomes of eukaryotic single-stranded DNA viruses*. Journal of Virology 88:1972-1989

93. Harkins, G.W., Martin, D.P., Christoffels, A., **Varsani, A.** (2014) *Towards inferring the global movement of Beak and feather disease virus*. Virology 450-451:24-33

94. Shamsadden-Saeed, F., Massumi, H., Moradi, S., Maddahian, M., Heydarnejad, J., Pour, A.H., **Varsani, A.** (2014) *Incidence and characterization of Potato virus V infections in Iran.* VirusDisease 25: 78-84

95. Farkas, K., Pang, L., Lin, S., Williamson, W., Easingwood, R., Fredericks, R., Jaffer, M.A., **Varsani, A.** (2013) *A gel filtration-based method for the purification of infectious rotavirus particles for environmental research applications*. Food and Environmental Virology 5 (4): 231-235

96. Hernández-Zepeda, C., **Varsani, A.**, Brown, J.K. (2013) *Intergeneric recombination between a new, spinach-infecting curtovirus and a new geminiviral species in the proposed genus Becurtovirus: first New World exemplar*. Archives of Virology 158: 2245-2254

97. Sikorski, A., Massaro, M., Kraberger, S., Young, L.M., Smalley, S., Martin, D.P., **Varsani, A.** (2013) *Novel myco-like DNA viruses discovered in the faecal matter of various animals*. Virus Research. 177: 209-216

98. Weber, B.W., Kimani, S.W., **Varsani, A.**, Cowon, D.A., Hunter, R., Venter, G.A., Gumbart, J.C., Sewell, B.T. (2013) *The mechanism of the amidases: Mutating the glutamate adjacent to the catalytic triad inactivates the enzyme due to substrate mispositioning*. The Journal of Biological Chemistry. 288 (40): 28514-28523

99. Ng, T.F.F., Alavandi, S., **Varsani, A.**, Burghart, S., Breitbart, M. (2013) *Metagenomic identification of a nodavirus and a circular ssDNA virus in semi-purified viral nucleic acids from the hepatopancreas of healthy Farfantepenaeus duorarum shrimp.* Diseases of Aquatic Organisms 105: 237–242

100. Kraberger, S., Harkins, G.W., Kumari, S.G., Thomas, J.E., Schwinghamer, M.W., Sharman, M., Collings, D.A., Briddon, R.W., Martin, D.P., **Varsani, A**. (2013) *Evidence that dicot-infecting mastreviruses are particularly prone to inter-species recombination and have likely been circulating in Australia for longer than in Africa and the Middle East*. Virology 444: 282-291

101. McCarthy, J.K., Didham, R.K., Brockerhoff, E.G., van Bysterveldt, K.A., **Varsani, A.** (2013) *High resolution DNA melt curve analysis for cost-effective mass screening of pairwise species interactions.* Molecular Ecology Resources 13: 908-917

102. Sikorski,A., Dayaram,A., **Varsani, A**. (2013) *Identification of a novel circular DNA virus in New Zealand fur seal (Arctocephalus forsteri) faecal matter* Genomes Announcements 1(4):e00558-13.

103. Kraberger, S., Stainton, D., Dayaram, A., Zawar-Reza, P., Gomez, C., Harding, J., **Varsani, A.** (2013) *Discovery of Sclerotinia sclerotiorum hypovirulence-associated virus-1 in urban river sediments of Heathcote and Styx rivers in Christchurch City, New Zealand* Genome Announcements 1(4):e00559-13.

104. Dayaram, A., Potter, K., Moline, A.B., Rosenstein, D.D., Marinov, M., Thomas, J.E., Breitbart, M., Rosario, K., Argüello-Astorga, G.R., **Varsani, A.** (2013) *High global diversity of cycloviruses amongst dragonflies* Journal of General Virology 94: 1827-1840

105. Sikorski, A., Kearvell, J., Elkington, S., Dayaram, A., Argüello-Astorga, G. R., **Varsani, A.** (2013) *Novel ssDNA viruses discovered in Yellow-crowned Parakeet (Cyanoramphus auriceps) nesting material*. Archives of Virology 158:1603-1607

106. Dayaram, A., Goldstien, S., Zawar-Reza, P., Gomez, C., Harding, J.S., **Varsani, A**. (2013) *Identification of Starling circovirus in an estuarine Mollusc (Amphibola crenata) in New Zealand using metagenomic approaches.* Genomes Announcements. 1: e00278-13

107. Kardani, S.G., Heydarnejad, J., Zakiaghl, M., Mehrvar, M., Kraberger, S., **Varsani, A.** (2013) *Diversity of beet curly top Iran virus isolated from different hosts in Iran*. Virus Genes. 46: 571-575

108. Muhire, B., Martin, D.P., Brown, J.K., Navas-Castillo, J., Moriones, E., Zerbini, F.M., Rivera-Bustamante, R., Malathi, V.G., Briddon, R.W., **Varsani, A.** (2013) *A genome-wide pairwise-identity-based proposal for the classification of viruses in the genus Mastrevirus (Geminiviridae).* Archives of Virology 158: 1411-1424

109. Rocha, C.S., Castillo-Urquiza, G.P., Lima, A.T.M., Silva, F.N., Xavier, C.A.D., Hora-Júnior, B.T., Beserra-Júnior, J.E.A., Malta, A.W.O, Martin, D.P., **Varsani, A**., Alfenas-Zerbini, P., Mizubuti, E.S.G., Zerbini, F.M (2013) *Brazilian begomovirus populations are highly recombinant, rapidly evolving, and segregated based on geographical location* Journal of Virology 87: 5784-5799

110. Razavinejad, S., Heydarnejad, J., Kamali, M., Massumi, H., Kraberger, S., **Varsani, A**. (2013) *Genetic diversity and host range studies of Turnip curly top virus.* Virus Genes 46: 345-353

111. Heydarnejad, J., Hesari, M., Massumi, H., **Varsani, A**. (2013) *Incidence and natural hosts of Tomato leaf curl Palampur virus in Iran* Australasian Plant Pathology 42: 195-203

112. Dayaram, A., Goldstien, S., Zawar-Reza, P., Gomez, C., Harding, J.S., **Varsani, A**. (2013) *Novel single stranded DNA virus recovered from estuarine Mollusc (Amphibola crenata) whose replication associated protein (Rep) shares similarities with Rep-like sequences of bacterial origin.* Journal of General Virology. 94: 1083-1089

113. Julian, L., Piasecki, T., Chrząstek, K., Walters, M., Muhire, B., Harkins, G.W., Martin, D.P., **Varsani, A.** (2013) *Extensive recombination detected amongst Beak and feather disease virus isolates from breeding facilities in Poland.* Journal of General Virology. 94:1065-1074

114. Piasecki, T., Harkins, G.W., Chrząstek, K., Julian, L., Martin, D.P., **Varsani, A.** (2013) *Avihepadnavirus diversity in parrots is comparable to that found amongst all other avian species.* Virology 438: 98-105

115. North, R.A., Kessans, S.A., Atkinson, S.C., Suzuki, H., Watson, A., Burgess, B.R., Angley, L.M., Hudson, A.O., **Varsani, A.**, Griffin, M.D.W., Fairbanks, A.J., Dobson, R.C.J. (2013*) Cloning, expression, purification, crystallization and preliminary X-ray diffraction studies of N-acetyl neuraminate lyase from methicillin-resistant Staphylococcus aureus.* Acta Crystallographica F69: 306-312

116. Heydarnejad, H., Keyvani, N., Razavinejad, S., Massumi, H., **Varsani, A.** (2013) *Fulfilling the Koch's postulate for Beet curly top Iran virus and proposal for consideration of new genus in the family Geminiviridae*. Archives of virology 158: 435-443

117. Rosario, K., Padilla-Rodriguez, M., Kraberger, S., Stainton, D., Martin, D.P., Breitbart, M., **Varsani, A.** (2013) *Discovery of a novel mastrevirus and alphasatellite-like circular DNA in dragonflies (Epiprocta) from Puerto Rico* Virus Research 171: 231-237

118. Heber, S., **Varsani, A.**, Kuhn, S., Girg, A., Kempenaers, B., Briskie, J.V. (2013) *The genetic rescue of two bottlenecked South Island robin populations using translocations of inbred donors*. Proceedings of the Royal Society B 280: 20122228.

119. Sikorski, A., Argüello-Astorga, G, R., Dayaram, A., Dobson, R.C.J., **Varsani, A.** (2013) *Discovery of a novel circular single stranded DNA virus from porcine faeces* Archives of Virology 158: 283-289

120. Monjane, A.L., Pande, D., Lakay, F., Shepherd, D.N., van der Walt, R., Lefeurve, P., Lett, J-M., **Varsani, A.**, Rybicki, E.P., Martin, D.P. (2012) *Adaptive evolution by recombination is not associated with increased mutation rates in Maize streak virus* BMC Evolutionary Biology. 12: 252

121. De Bruyn, A., Villemot, J., Lefeuvre, P., Villar, E., Hoareau, M., Harimalala, M., Abdoul-Karime, A.L., Abdou-Chakour, C. Reynaud, B., Harkins, G.W., **Varsani, A.**, Martin, D.P., Lett, J-M. (2012) *East African cassava mosaic-like viruses from Africa to Indian Ocean Islands: molecular diversity, evolutionary history and geographical dissemination of a bipartite begomovirus* BMC Evolutionary Biology. 12: 228

122. Rosario, K., Dayaram, A., Marinov, M., Ware, J., Kraberger, S., Stainton, D., Breitbart, M., **Varsani, A.** (2012) *Diverse circular ssDNA viruses discovered in dragonflies (Odonata: Epiprocta)* Journal of General Virology 93: 2668-2681

123. Kraberger, S., Thomas, J.E., Geering, A.D.W., Dayaram, A., Stainton, D., Hadfield, J., Walters, M., Parmenter, K.S., van Brunschot, S., Collings, D.A., Martin, D.P., **Varsani, A**. (2012) Australian monocot-infecting mastrevirus diversity rivals that in Africa. *Virus Research* 169: 127-136.

124. Julian, L., Lorenzo, A., Chenuet, J-P., Bonzon, M., Marchal, C., Vignon, L., Collings, D.A., Walters, M., Jackson, B., **Varsani, A.** (2012) *Evidence of multiple introductions of Beak and feather disease virus into the pacific islands of Nouvelle-Calédonie (New Caledonia)* Journal of General Virology 93: 2466 – 2472

125. Massaro, M., Ortiz-Catedral, L., Julian, L., Galbraith, J.A., Kurenbach, B., Kearvell, J., Kemp, J., Van Hal, J., Elkington, E., Taylor, G., Greene, T., van de Wetering, J., van de Watering, M., Pryde, M., Dilks, P., Heber, S., Steeves, T, Walters, M., Shaw, S, Potter, J., Farrant, M., Brunton, D.H., Hauber, M., Jackson, B., Bell, P., Moorhouse, R., McInnes, K., **Varsani, A.** (2012) *Molecular characterisation of Beak and feather disease virus (BFDV) in New Zealand and its implications for managing an emerging, infectious disease*. Archives of Virology 157: 1651-1663

126. Pande, D., Kraberger, K., Lefeurve, P., Lett, J-M., Shepherd, D.N., **Varsani, A,** Martin, D.P. (2012) *A novel maize-infecting mastrevirus from La Réunion Island*. Archives of Virology 157: 1617–1621

127. Dayaram, A., Opong, A., Jäschke, A., Hadfield, J., Baschiera, M., Dobson, R.C.J., Offei, S.K., Shepherd, D.N., Martin, D.P., **Varsani, A.** (2012) *Molecular characterisation of a novel cassava associated circular ssDNA virus*. Virus Research 166: 130-135.

128. Hadfield, J., Thomas, J.E., Schwinghamer, M.W., Kraberger, S., Stainton, D., Dayaram, A., Parry, J.N., Pande, P., Martin, D.P., **Varsani, A**. (2012) *Molecular characterisation of dicot-infecting mastreviruses from Australia*. Virus Research 166: 13-22.

129. Albuquerque, L.C., **Varsani, A.,** Fernandes, F. R., Pinheiro, B., Martin, D.P., Ferreira, P.T.O., Lemos, T.O., Inoue-Nagata, A.K. (2012) *Further characterization of tomato-infecting begomoviruses in Brazil*. Archives of Virology, 157, 747-752

130. Stainton, D., Kraberger,S., Walters, M., Wiltshire,E.J., Rosario, K., Halafihi, M., Lolohea, S., Katoa, I., Faitua, T.H., Aholelei,W., Taufa, L., Thomas, J.E, Collings, D.A., Martin, D.P., **Varsani, A**. (2012) *Evidence of inter-component recombination, intra-component recombination and reassortment in Banana bunchy top virus*. Journal of General Virology, 93, 1103-1119

131. Piasecki, T., Kurenbach, B., Chrząstek, K., Kraberger, S., Martin, D.P., **Varsani, A**. (2012) *Molecular characterisation of an avihepadnavirus isolated from Psittacula krameri (Ring-necked parrot)*. Archives of Virology, 157, 585–590

132. Péréfarres, F., De Bruyn, F.A., Kraberger, S., Hoareau, M., Barjon, F., Lefeuvre, P., Pellegrin, F., Caplong, P., **Varsani, A.,** Lett, J-M. (2012) *Occurrence of the Israel strain of Tomato yellow leaf curl virus in New Caledonia and Loyalty Islands*. New Disease Reports, 25, 6

133. Geering, A.D.W., Thomas, J.E., Holton, T., Hadfield, J., **Varsani, A.** (2012) *Paspalum striate mosaic virus: An Australian mastrevirus from Paspalum dilatatum.* Archives of Virology, 157, 193-197

134. Monjane, A.L., van der Walt, E., **Varsani, A.**, Rybicki, E.P., Martin, D.P. (2011) *Recombination hotspots and host susceptibility modulate the adaptive value of recombination during Maize streak virus evolution*. BMC Evolutionary Biology, 11, 350

135. Hadfield, J., Linderme, D., Shepherd, D.N., Bezuidenhout, M., Lefeuvre, P., Martin, D.P., **Varsani, A.** (2011) *Complete genome sequence of a dahlia common mosaic virus isolate from New Zealand*. Archives of Virology, 156, 2297-2301

136. Goldsmith, D., Crosti, G, Dwivedi, B., McDaniel, L., **Varsani, A.**, Suttle, C., Weinbauer, M., Sandaa, R-A., Breitbart, M. (2011) *Development of phoH as a novel signature gene for assessing marine phage diversity*. Applied and Environmental Microbiology, 77(21),7730-7739

137. Martin, D.P., Lefeuvre, P., **Varsani, A.**, Hoareau, M., Semegni, J.Y., Dijoux, B., Vincent, C., Reynaud, B., Lett, J-M. (2011) *Complex recombination patterns arising during geminivirus coinfections preserve and demarcate biologically important intra-genome interaction networks*. PLoS Pathogens, 7(9), e1002203.

138. Martin, D.P., Biagini, P., Lefeuvre, P., Golden, M., Roumagnac, P., **Varsani, A**. (2011) *Recombination in eukaryotic single stranded DNA viruses*. Viruses, 3(9), 1699-1738.

139. Monjane, A.L., Harkins, G.W., Martin, D.P., Lemey, P., Lefeurve, P., Shepherd, D.P., Oluwafemi, S., Simuyandi, M., Zinga, I., Komba, E.K., Lakoutene, D.P., Mandakombo, N., Mboukoulida, P., Semballa, S., Tagne, A., Tiendrébéogo, F., Erdmann, J.B., van Antwerpen, T., Owor, B.E., Flett, B., Ramusi, M., Windram, O., Syed, R., Lett, J.M., Briddon, R.W., Markham, P.G., Rybicki, E.P., **Varsani, A**. (2011) *Reconstructing the history of Maize streak virus strain A dispersal to reveal diversification hot spots and its origin in southern Africa*. Journal of Virology, 85(18), 9623-9636.

140. Salari, K., Massumi, H., Heydarnejad, J., Pour, A.H., **Varsani, A**. (2011) *Analysis of Iranian Potato virus S isolates*. Virus genes, 43, 281-288.

141. Martin, D.P., Briddon, R.W., **Varsani, A.** (2011) *Recombination patterns in dicot-infecting mastreviruses mirror those found in monocot-infecting mastreviruses*. Archives of Virology. 156: 1463-1469

142. Martin, D.P., Linderme, D., Lefeuvre, P., Shepherd, D.N., **Varsani, A**. (2011) *Eragrostis minor streak virus: An Asian streak virus in Africa*. Archives of Virology. 156: 1299-1303

143. Miller, J.L., Woodward, J., Chen, S., Jaffer, M., Weber, B., Nagasaki, K., Tomaru, Y., Wepf, R., Roseman, A., **Varsani, A**., Sewell, B.T. (2011) *Three-dimensional reconstruction of Heterocapsa circularisquama RNA virus by Cryo-electron microscopy*. Journal of General Virology 92:1960-1970

144. Rosario, K., Marinov, M., Stainton, D., Kraberger, S., Wiltshire, E.J., Collings, D.A., Walters, M., Martin, D.P., Breitbart, M., **Varsani, A**. (2011) *Dragonfly cyclovirus, a novel single-stranded DNA virus discovered in dragonflies (Odonata: Anisoptera)*. Journal of General Virology. 92, 1302 - 1308

145. Hosseini, A., Massumi, H., Heydarnejad, J., Pour, A.H., **Varsani, A**. (2011) *Characterisation of potato virus Y isolates from Iran*. Virus genes. 42, 128-140

146. **Varsani, A.**, Regnard, G.L., Bragg, R.R., Hitzeroth, I.I., Rybicki, E.P. (2011) *Global genetic diversity and geographical and host species distribution of beak and feather disease virus isolates*. Journal of General Virology. 4, 752-767

147. Hadfield, J., Martin, D.P., Stainton, D., Kraberger, S., Owor, B.E., Shepherd, D.N., Lakay, F., Markham, P.G., Greber, R.S., Briddon, R.W., **Varsani, A**. (2011) *Bromus catharticus striate mosaic virus: a new mastrevirus infecting Bromus catharticus from Australia*. Archives of Virology 156, 335-341

148. Lefeuvre, P., Martin, D.P., Harkins, H., Lemey, P., Gray, A., Meredith, S., Lakay, F., Monjane, AL., Lett, J.M., **Varsani, A.**, Heydarnejad, J. (2010) *The spread of Tomato yellow leaf curl virus from the Middle East to the world*. PLoS Pathogens 28;6(10):e1001164

149. Tazehkand, A.S., Pour, A.H., Heydarnejad, J., **Varsani, A**., Massumi, H. (2010) *Identification of phytoplasmas associated with cultivated and ornamental plants in Kerman province, Iran.* Journal of Phytopathology, 158:713-720

150. Briddon, R.W., Martin, D.P., Owor, B.E., Donaldson, L., Markham, P.G., Greber, R.S., **Varsani, A**. (2010) *A novel species of mastrevirus (family Geminiviridae) isolated from Digitaria didactyla grass from Australia*. Archives of Virology 155, 8, 1529-1534

151. Williamson, D.S., Dent, K.C., Weber, W.B., **Varsani, A.**, Frederick, J., Cameron, R.A., van Heerden, J.H., Cowan, D.A., Sewell, B.T. (2010) *Structural and biochemical characterization of a nitrilase from the thermophilic bacterium, Geobacillus pallidus RAPc8.* Applied Microbiology and Biotechnology, 88, 143-153.

152. Briddon, R.W., Heydarnejad, J., Khosrowfar, F., Massumi, H., Martin, D.P., **Varsani, A**. (2010) *Turnip curly top virus, a highly divergent geminivirus infecting turnip in Iran.* Virus Research, 152, 169 - 175.

153. Ortiz-Catedral, L., Kurenbach, B., Massaro, M., McInnes, K., Brunton, D.H., Hauber, M.E., Martin, D.P., **Varsani, A**. (2010) *A new isolate of Beak and feather disease virus from endemic wild Red-fronted parakeets (Cyanoramphus novaezelandiae) in New Zealand.* Archives of Virology, 155, 613-620.

154. **Varsani, A.,** de Villiers, G. K., Regnard, G., Bragg, R. R., Kondiah, K. M., Hitzeroth, I., Rybicki, E. P. (2010) *A unique isolate of Beak and feather disease virus from budgerigars (Melopsittacus undulates) in South Africa.* Archives of Virology, 155, 435-439.

155. Erdmann, J.B., Shepherd, D.N., Martin, D.P., **Varsani, A.**, Rybicki, E., Jeske, H. (2010) *Replicative intermediates of Maize streak virus found during leaf development.* Journal of General Virology, 91, 1077-1084.

156. Shepherd, D.N., Martin, D.P., van der Walt, E., Dent, K., **Varsani, A**., Rybicki, E.P. (2010) *Maize streak virus: an old and complex 'emerging' pathogen.* Molecular Plant Pathology, 11, 1, 1-12.

157. **Varsani, A**., Shepherd, D.N., Dent, K., Monjane, A.L., Rybicki, E.P., Martin, D.P. (2009) *A highly divergent South African geminivirus species illuminates the ancient evolutionary history of this family.* Virology Journal, 6, 36.

158. Lawry, R., Martin, D.P., Shepherd, D.N., van Antwerpen, T., **Varsani, A**. (2009) *A novel sugarcane-infecting mastrevirus from South Africa.* Archives of Virology, 154, 1699-1703.

159. Mackinder, L.C., Worthy, C.A., Biggi, G., Hall, M., Ryan, K.P., **Varsani, A**., Harper, G., Wilson, W.H., Brownlee, C., Schroeder, D.C. (2009) *A unicellular algal virus, Emiliania huxleyi virus 86, exploits an animal-like infection strategy.* Journal of General Virology, 90, 2306-2316.

160. **Varsani, A**., Monjane, A.L., Donaldson, L., Oluwafemi, S., Zinga, I., Komba, E.K., Plakoutene, D., Mandakombo, N., Mboukoulida, J., Semballa, S., Briddon, R.W., Markham, P.G., Lett, J.M., Lefeuvre, P., Rybicki, E.P., Martin, D.P. (2009) *Comparative analysis of Panicum streak virus and Maize streak virus diversity, recombination patterns and phylogeography.* Virology Journal, 2009, 6, 194.

161. Lett, J. M., Lefeuvre, P., Couston, L., Hoareau, M., Thierry, M., Reynaud, B., Martin, D.P., **Varsani, A**. (2009) *Complete genomic sequences of Tomato yellow leaf curl Mali virus isolates infecting tomato and pepper from the North Province of Cameroon.* Archives of Virology, 154, 535-40.

162. Heydarnejad, J., Mozaffari, A., Massumi, H., Fazeli, R., Gray, A.J., Meredith, S., Lakay, F., Shepherd, D.N., Martin, D.P., **Varsani, A**. (2009) *Complete sequences of tomato leaf curl Palampur virus isolates infecting cucurbits in Iran.* Archives of Virology, 154, 6, 1015-1018.

163. Harkins, G.W., Martin, D.P., Duffy, S., Monjane, A.L., Shepherd, D.N., Windram, O.P., Owor, B.E., Donaldson, L., van Antwerpen, T., Sayed, R.A., Flett, B., Ramusi, M., Rybicki, E.P., Peterschmitt, M., **Varsani, A**. (2009) *Dating the origins of the maize-adapted strain of maize streak virus, MSV-A.* Journal of General Virology, 90, 3066–3074.

164. Harkins, G.W., Delport, W., Duffy, S., Wood, N., Monjane, A.L., Owor, B.E., Donaldson, L., Saumtally, S., Triton, G., Briddon, R.W., Shepherd, D.N., Rybicki, E.P., Martin, D.P., **Varsani, A**. (2009) *Experimental evidence indicating that mastreviruses probably did not co-diverge with their hosts.* Virology Journal, 6, 104.

165. Fazeli, R., Heydarnejad, J., Massumi, H., Shaabanian, M., **Varsani, A**. (2009) *Genetic diversity and distribution of tomato-infecting begomoviruses in Iran.* Virus Genes, 38, 2, 311-9.

166. van der Walt, E., Rybicki, E.P., **Varsani, A**., Polston, J. E., Billharz, R., Donaldson, L., Monjane, A. L., Martin, D.P. (2009) *Rapid host adaptation by extensive recombination.* Journal of General Virology, 90, 3, 734-46.

167. Lefeuvre, P., Lett, J.M., **Varsani, A**., Martin, D.P. (2009) *Widely conserved recombination patterns among single-stranded DNA viruses.* Journal of Virology, 83, 6, 2697-707.

168. Oluwafemi, S., **Varsani, A**., Monjane, A.L., Shepherd, D.N., Owor, B.E., Rybicki, E.P., Martin, D.P. (2008) *A new African streak virus species from Nigeria.* Archives of Virology, 153, 7, 1407-1410.

169. Shepherd, D.N., Martin, D.P., Lefeuvre, P., Monjane, A.L., Owor, B.E., Rybicki, E.P., **Varsani, A.** (2008) *A protocol for the rapid isolation of full geminivirus genomes from dried plant tissue.* Journal of Virological Methods, 149, 1, 97-102.

170. Windram, O.P., Weber, B., Jaffer, M.A., Rybicki, E.P., Shepherd, D.N., **Varsani, A**. (2008) *An investigation into the use of human papillomavirus type 16 virus-like particles as a delivery vector system for foreign proteins: N- and C-terminal fusion of GFP to the L1 and L2 capsid proteins.* Archives of Virology, 153, 3, 585-589.

171. van der Walt, E., Martin, D.P., **Varsani, A**., Polston, J.E., Rybicki, E.P. (2008) *Experimental observations of rapid Maize streak virus evolution reveal a strand-specific nucleotide substitution bias.* Virology Journal, 5, 104, 11.

172. van Antwerpen, T., McFarlane, S.A., Buchanan, G.F., Shepherd, D.N., Martin, D.P., Rybicki, E.P., **Varsani, A**. (2008) *First Report of Maize streak virus Field Infection of Sugarcane in South Africa.* Plant Disease, 92, 6, 982-982.

173. Shepherd, D.N., **Varsani, A**., Windram, O.P., Lefeuvre, P., Monjane, A.L., Owor, B.E., Martin, D.P. (2008) *Novel sugarcane streak and sugarcane streak Reunion mastreviruses from southern Africa and La Reunion.* Archives of Virology, 153, 3, 605-609.

174. **Varsani, A**., Oluwafemi, S., Windram, O.P., Shepherd, D.N., Monjane, A.L., Owor, B.E., Rybicki, E.P., Lefeuvre, P., Martin, D.P. (2008) *Panicum streak virus diversity is similar to that observed for maize streak virus.* Archives of Virology, 153, 3, 601-604.

175. **Varsani, A**., Shepherd, D.N., Monjane, A.L., Owor, B.E., Erdmann, J.B., Rybicki, E.P., Peterschmitt, M., Briddon, R.W., Markham, P.G., Oluwafemi, S., Windram, O.P., Lefeuvre, P., Lett, J.-M., Martin, D.P. (2008) *Recombination, decreased host specificity and increased mobility may have driven the emergence of maize streak virus as an agricultural pathogen.* Journal of General Virology, 89, 9, 2063-2074.

176. Castillo-Urquiza, G.P., Beserra, J.E.A., Bruckner, F.P., Lima, A.T.M., **Varsani, A**., Alfenas-Zerbini, P., Zerbini, F.M. (2008) *Six novel begomoviruses infecting tomato and associated weeds in Southeastern Brazil.* Archives of Virology, 153, 10, 1985-1989.

177. Lefeuvre, P., Martin, D. P., Hoareau, M., Naze, F., Delatte, H., Thierry, M., **Varsani, A**., Becker, N., Reynaud, B., Lett, J. M. (2007) *Begomovirus 'melting pot' in the south-west Indian Ocean islands: molecular diversity and evolution through recombination.* Journal of General Virology, 88, 3458-3468.

178. Owor, B.E., Martin, D.P., Shepherd, D. N., Edema, R., Monjane, A.L., Rybicki, E.P., Thomson, J. A., **Varsani, A**. (2007) *Genetic analysis of maize streak virus isolates from Uganda reveals widespread distribution of a recombinant variant.* Journal of General Virology, 88, 3154-3165.

179. Bredell, H., Martin, D.P., Van Harmelen, J., **Varsani, A**., Sheppard, H.W., Donovan, R., Gray, C. M., Williamson, C., Hivnet028 Study Team. (2007) *HIV type 1 subtype C gag and nef diversity in southern Africa.* Aids Research and Human Retroviruses, 23, 3, 477-481.

180. Thuku, R.N., Weber, B.W., **Varsani, A**., Sewell, B.T. (2007) *Post-translational cleavage of recombinantly expressed nitrilase from Rhodococcus rhodochrous J1 yields a stable, active helical form.* FEBS Journal, 274, 8, 2099-2108.

181. Owor, B.E., Shepherd, D.N., Taylor, N.J., Edema, R., Monjane, A.L., Thomson, J.A., Martin, D.P., **Varsani, A**. (2007) *Successful application of FTA((R)) Classic Card technology and use of bacteriophage phi 29 DNA polymerase for large-scale field sampling and cloning of complete maize streak virus genomes.* Journal of Virological Methods, 140, 1-2, 100-105.

182. **Varsani, A**., Williamson, A.L., Jaffer, M.A., Rybicki, E.P. (2006) *A deletion and point mutation study of the human papillomavirus type 16 major capsid gene.* Virus Research, 122, 1-2, 154-163.

183. **Varsani, A**., van der Walt, E., Heath, L., Rybicki, E.P., Williamson, A.L., Martin, D.P. (2006) *Evidence of ancient papillomavirus recombination.* Journal of General Virology, 87, 2527-2531.

184. Kohl, T., Hitzeroth, I.I., Stewart, D., **Varsani, A**., Govan, V.A., Christensen, N.D., Williamson, A.L., Rybicki, E.P. (2006) *Plant-produced cottontail rabbit papillomavirus L1 protein protects against tumor challenge: a proof-of-concept study.* Clinical and Vaccine Immunology, 13, 8, 845-853.

185. Heath, L., van der Walt, E., **Varsani, A**., Martin, D.P. (2006) *Recombination patterns in aphthoviruses mirror those found in other picornaviruses.* Journal of Virology, 80, 23, 11827-11832.

186. Shepherd, D.N., Martin, D.P., **Varsani, A**., Thomson, J.A., Rybicki, E.P., Klump, H.H. (2006) *Restoration of native folding of single-stranded DNA sequences through reverse mutations: An indication of a new epigenetic mechanism.* Archives of Biochemistry and Biophysics, 453, 1, 108-122.

187. **Varsani, A**., Williamson, A.L., Stewart, D., Rybicki, E.P. (2006) *Transient expression of Human papillomavirus type 16 L1 protein in Nicotiana benthamiana using an infectious tobamovirus vector.* Virus Research, 120, 1-2, 91-96.

188. **Varsani, A**., Williamson, A.L., de Villiers, D., Becker, I., Christensen, N.D., Rybicki, E.P. (2003) *Chimeric human papillomavirus type 16 (HPV-16) L1 particles presenting the common neutralizing epitope for the L2 minor capsid protein of HPV-6 and HPV-16.* Journal of Virology, 77, 15, 8386-8393.

189. **Varsani, A**., Williamson, A.L., Rose, R.C., Jaffer, M., Rybicki, E.P. (2003) *Expression of Human papillomavirus type 16 major capsid protein in transgenic Nicotiana tabacum cv. Xanthi.* Archives of Virology, 148, 9, 1771-1786.

INTERNATIONAL REFEREEING AND SCIENTIFIC COMMITTIEES

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” geminivirus working group (2010 – current)
3) Committee member of the “International Committee on Taxonomy of Viruses” circovirus working group (2011 – current)
4) Advisory board for the journal Archives of Virology (2009 – 2016)
5) Advisory board of the journal Virology (2015 – current)
6) Referee for the following journals
    - Nature Microbiology Review (NPG)
    - ISME (NPG)
    - Scientific Reports (NPG)
    - Emerging Infectious Diseases (Centers for Disease Control and Prevention)
    - Journal of Virology (ASM)
    - Genome Biology and Evolution (Oxford Journals)
    - Journal of General Virology (SGM)
    - Molecular Phylogenetics and Evolution (Elsevier)
    - Virology (Elsevier)
    - Annals of the New York Academy of Sciences (Wiley)
    - PLoS One (PLoS Jounrals)
    - Virus Research (Elsevier)
    - Transfusion (Wiley)
    - Gene (Elsevier)
    - Journal of Clinical Virology (Elsevier)
    - Annals of Applied Biology (Wiley-Blackwell)
    - Evolutionary Applications (Wiley)
    - Applied and Environmental Microbiology (ASM)
    - Archives of Virology (Springer-Verlag)
    - Virus Genes (Springer, Netherlands)
    - Journal of Virological Methods (Elsevier)
    - Infection, Genetics and Evolution (Elsevier)
    - Virulence (Taylor and Francis)
    - Virus Evolution (Oxford Journals)
    - Virology Journal (BioMed Central)
    - Phytopathology (APS)
    - European Journal of Plant Pathology (Springer)
    - Plant Pathology Journal (Wiley)
    - Avian Pathology (Taylor and Francis)
    - Crop and Pasture Science (CSIRO publishing)
    - Australasian Plant Pathology (CSIRO publishing)
    - International Journal of Odonatology (Taylor and Francis)

GENERAL

Languages

Proficient in spoken and written English, Swahili and Gujarati.

Personal interests

Climbing, mountaineering, trail running and photography.

REFEREES

- Assoc. Prof. Darren Martin, Institute of Infectious Disease and Molecular Medicine, Faculty of Health Sciences, University of Cape Town, Anzio Road, Observatory, 7925, Cape Town, South Africa. Tel: +27 83 270 0027; E-mail: darrenpatrickmartin@gmail.com
- Prof. Trevor Sewell, Structural Biology Research Unit, University of Cape Town, Rondebosch, 7701, Cape Town, South Africa. Tel: +27 21 650 2817; E-mail: sewelltrevor@gmail.com
- Prof. Jack Heinemann, School of Biological Sciences, University of Canterbury, Private Bag 4800, Ilam, Christchurch, New Zealand, Phone: +64 3 364 2926, E-mail: jack.heinemann@canterbury.ac.nz
- Dr Philippe Roumagnac, CIRAD-INRA-SupAgro, UMR BGPI, Campus International de Montferrier-Baillarguet, 34398 Montpellier Cedex-5, France, Phone: Tel. +33 4 99 62 48 58, E-mail: philippe.roumagnac@cirad.fr
- Assoc. Prof. Mya Breitbart, University of South Florida, College of Marine Science, 140 7th Avenue South, Saint Petersburg, FL 33701, USA, Phone: +1 727-553-3520, E-mail: mya@usf.edu
- Assoc. Prof. David Collings, School of Environmental and Life Sciences, The University of Newcastle, Callaghan NSW 2308, Australia, Phone: +61 2 4921 5702, E-mail: david.collings@newcastle.edu.au