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Appendices

Appendix A - Meteorological data, readings of temperature and pH

Daily meteorological data of dipteran succession study on decomposing pig carcass.

Day	Daily Temperature (Maximum, °C)	Daily Temperature (Minimum, °C)	Relative Humidity (Maximum, %)	Relative Humidity (Maximum, %)	Rainfall (mm)
1	33.0	22.5	100	92	1.4
2	42.0	22.0	100	94	0.6
3	41.0	23.0	100	92	26.0
4	41.0	23.0	100	91	2.0
5	37.5	22.5	100	94	16.0
6	44.5	22.5	100	94	18.2
7	49.5	22.5	100	94	55.8
8	45.0	22.5	100	94	22.0

Readings of temperature and pH of the carcass body, larval mass as well as soil for carcass A throughout decomposition stages.

Day	Carcass body temperature (°C)	Larval mass temperature (°C)	Soil temperature (°C)	Carcass body pH	Larval mass pH	Soil pH
1	36		27	6		5
2	26		26	6		5
3	40	41	26	7	10	6
4		39	26		10	6
5		41	26		10	8
6		33	25		10	8
7			27			5

Readings of temperature and pH of the carcass body, larval mass as well as soil for carcass B throughout decomposition stages.

Day	Carcass body temperature (°C)	Larval mass temperature (°C)	Soil temperature (°C)	Carcass body pH	Larval mass pH	Soil pH
1	37		28	6		5
2	25		26	6		5
3	28		26	6		5
4	30	30.5	27	8	9	5
5	32	42.0	25	8	9	6
6		41.5	25		10	5
7		41.0	26		9	5
8		37.0	26		9	5

Appendix B – Phylogenetic trees

Appendix B-1

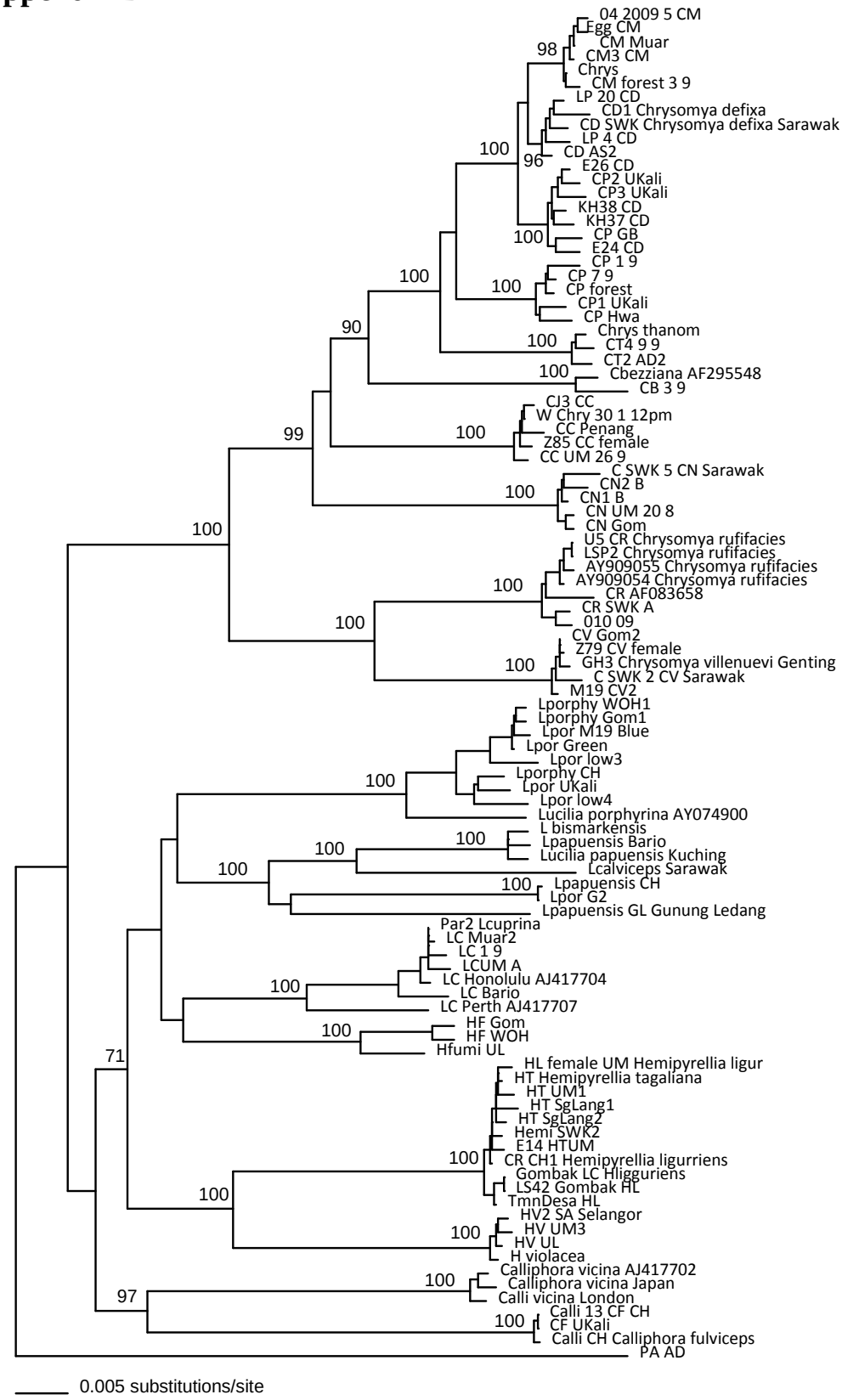

Figure: The NJ tree of Calliphoridae species was constructed on the basis of 2309bp mitochondrial COI and COII gene sequences using PAUP* 4.0b10 and rooted with *Parasarcophaga albicpes* (Sarcophagidae) as the outgroup. The number on the internal branches represents bootstrap values (n=10000) with 70% cut off value.

Appendix B-2

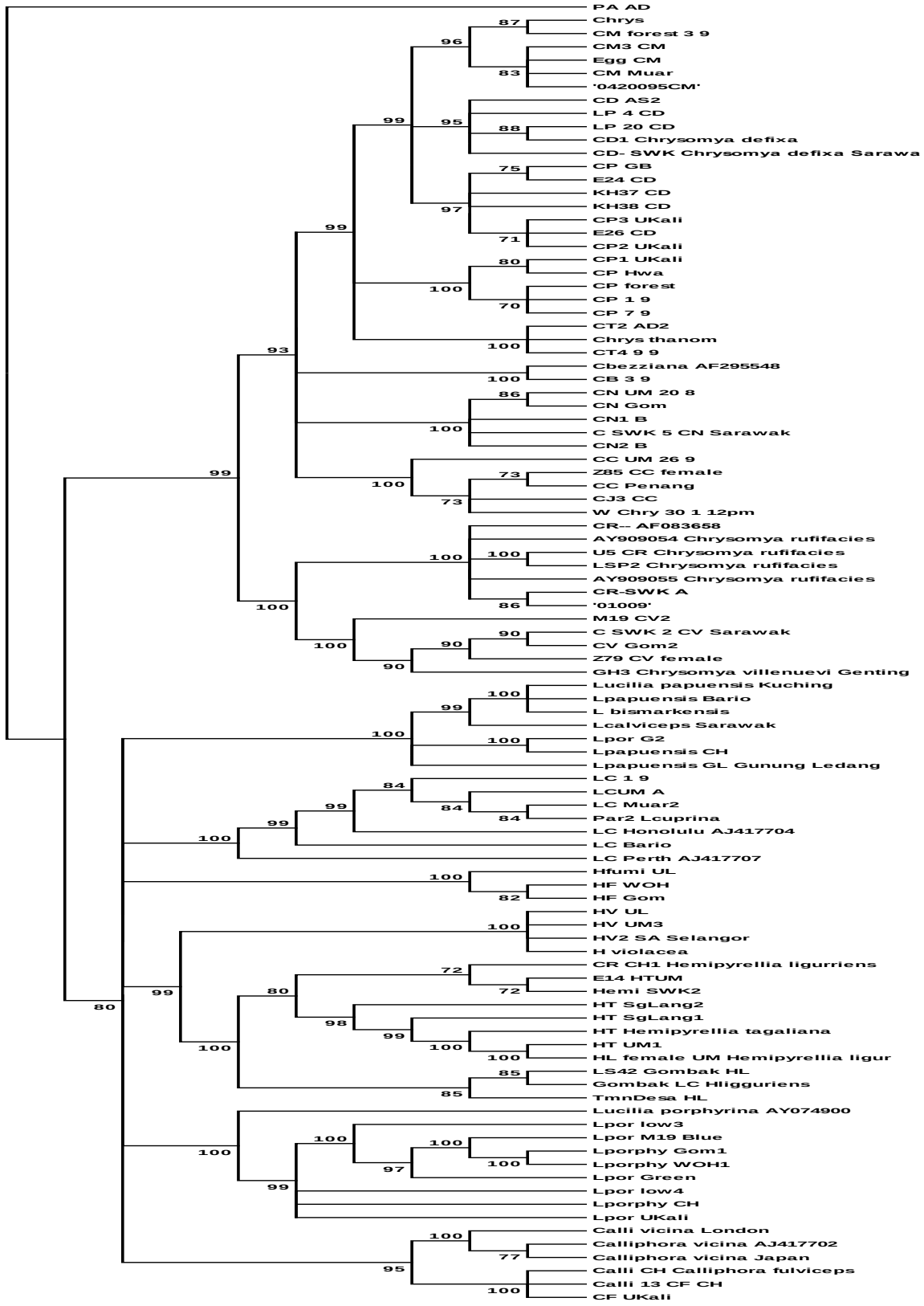

Figure: The MP tree of Calliphoridae species was constructed on the basis of 2309bp mitochondrial COI and COII gene sequences using PAUP* 4.0b10 and rooted with *Parasarcophaga albicpes* (Sarcophagidae) as the outgroup. The number on the internal branches represents bootstrap values (n=10000) with 70% cut off value.

Appendix B-3

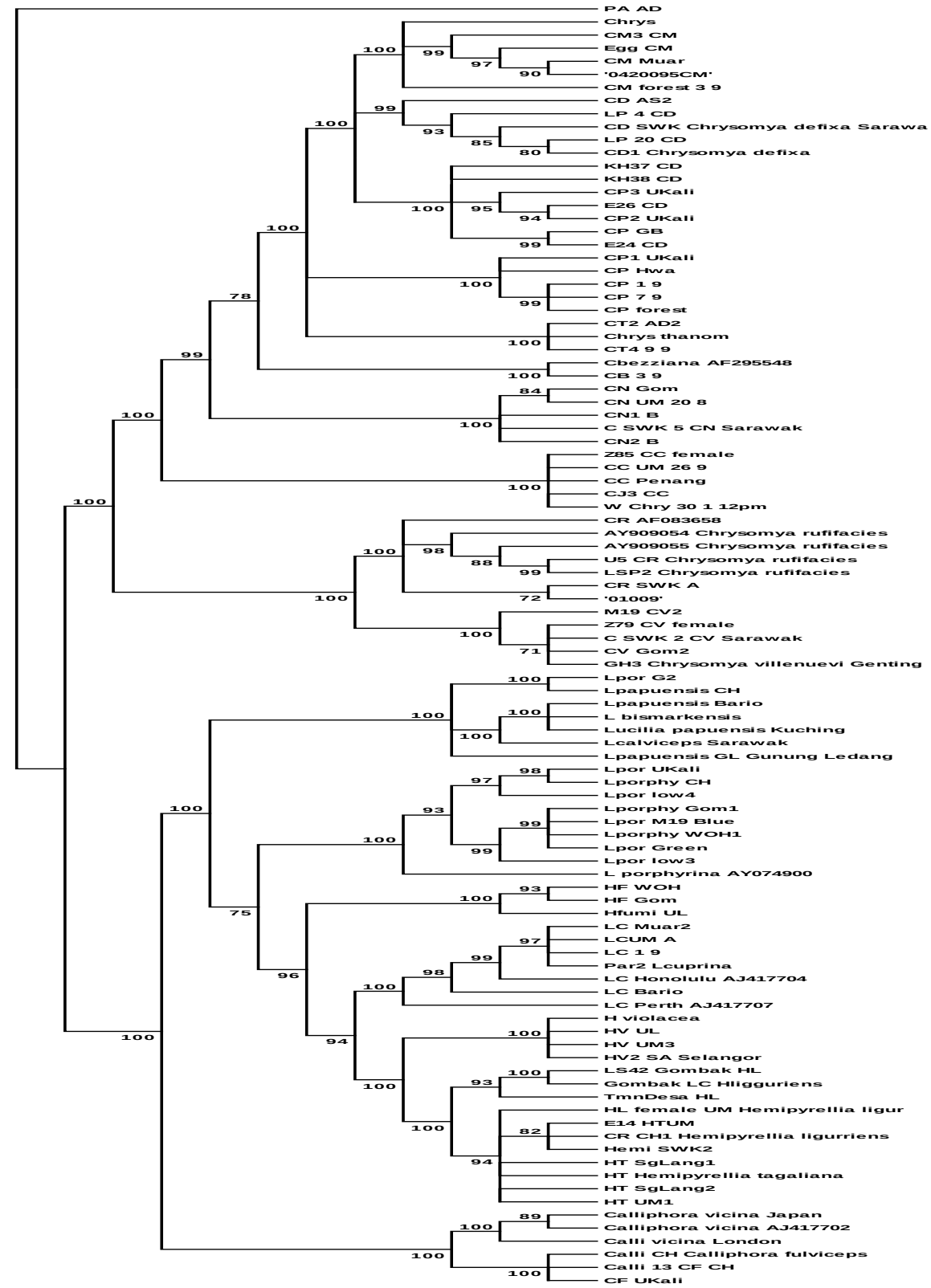

Figure: Bayesian consensus phylogeny of Calliphoridae species of 2309bp mitochondrial *COI* and *COII* gene sequences using MrBayes 3.1.2 and rooted with *Parasarcophaga albicpes* (Sarcophagidae) as the outgroup. The number on the internal branches represents Bayesian posterior probabilities (n=1 million) with 70% cut off value.

Appendix B-4

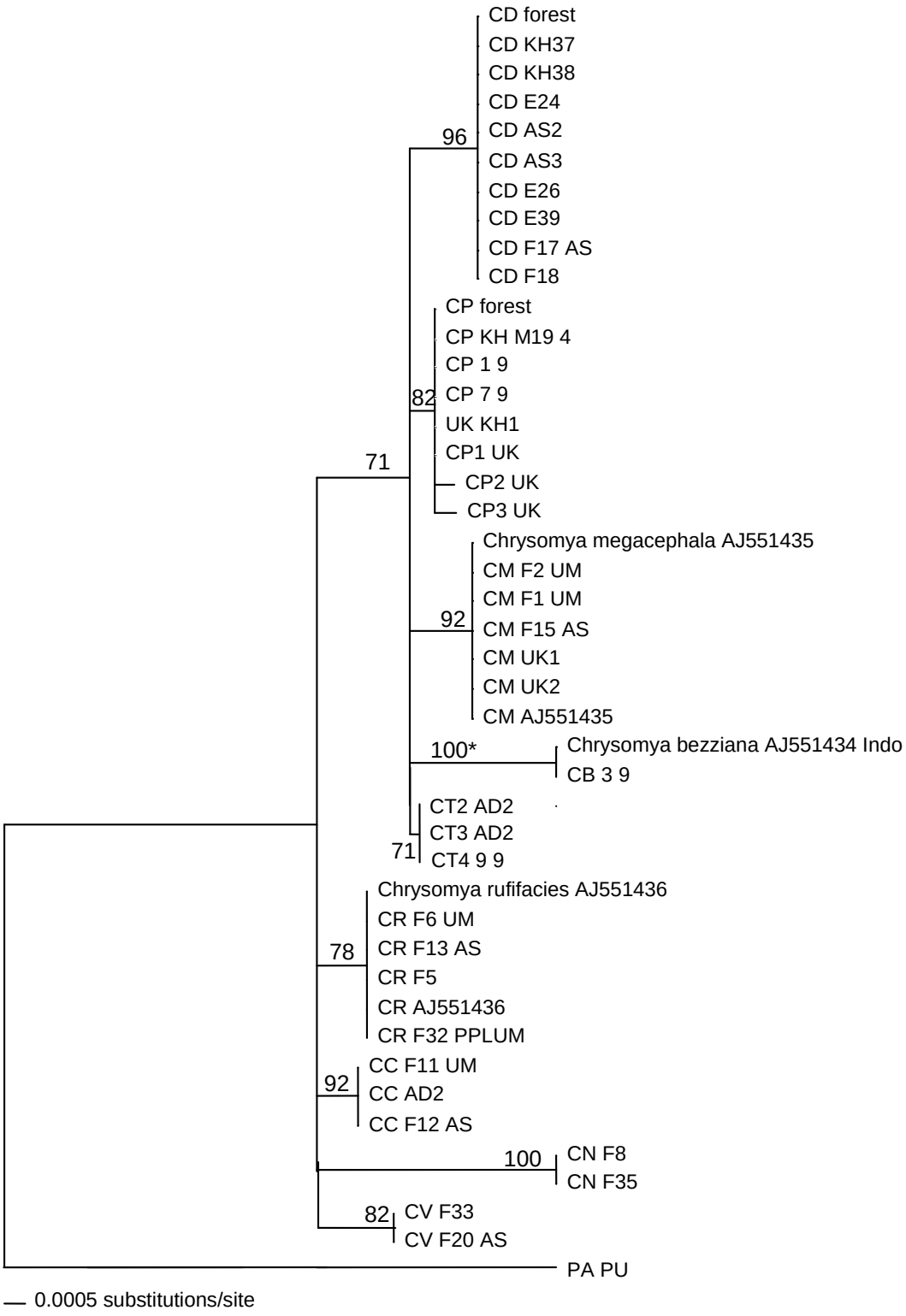

Figure: The NJ tree of Calliphoridae species was constructed on the basis of 2172bp 28S rDNA sequences using PAUP* 4.0b10 and rooted with *Parasarcophaga albicpes* (Sarcophagidae) as the outgroup. The number on the internal branches represents bootstrap values (n=10000) with 70% cut off value.

Appendix B-5

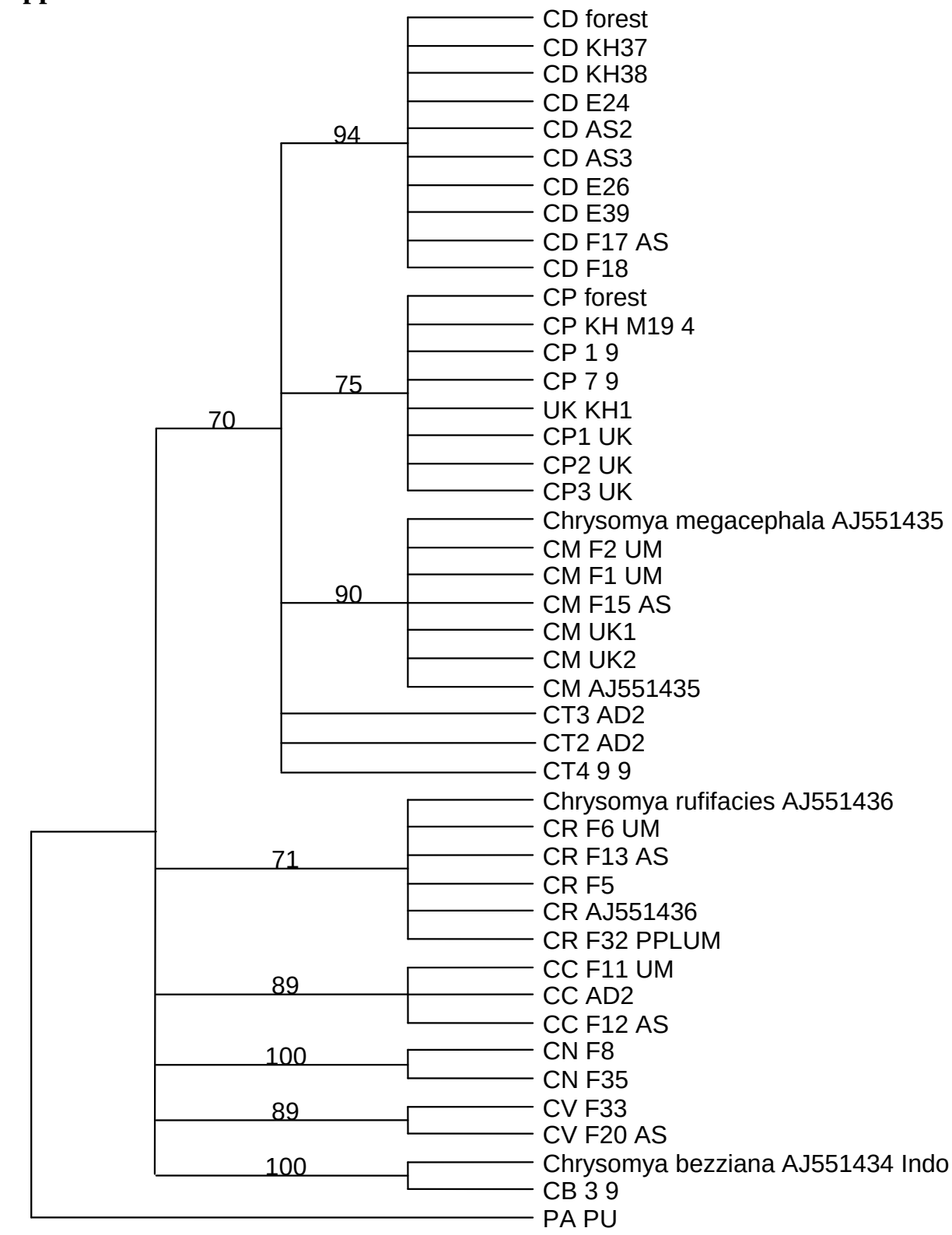

Figure: The MP tree of Calliphoridae species was constructed on the basis of 2172bp 28S rDNA sequences using PAUP* 4.0b10 and rooted with *Parasarcophaga albicpes* (Sarcophagidae) as the outgroup. The number on the internal branches represents bootstrap values (n=10000) with 70% cut off value.

Appendix B-6

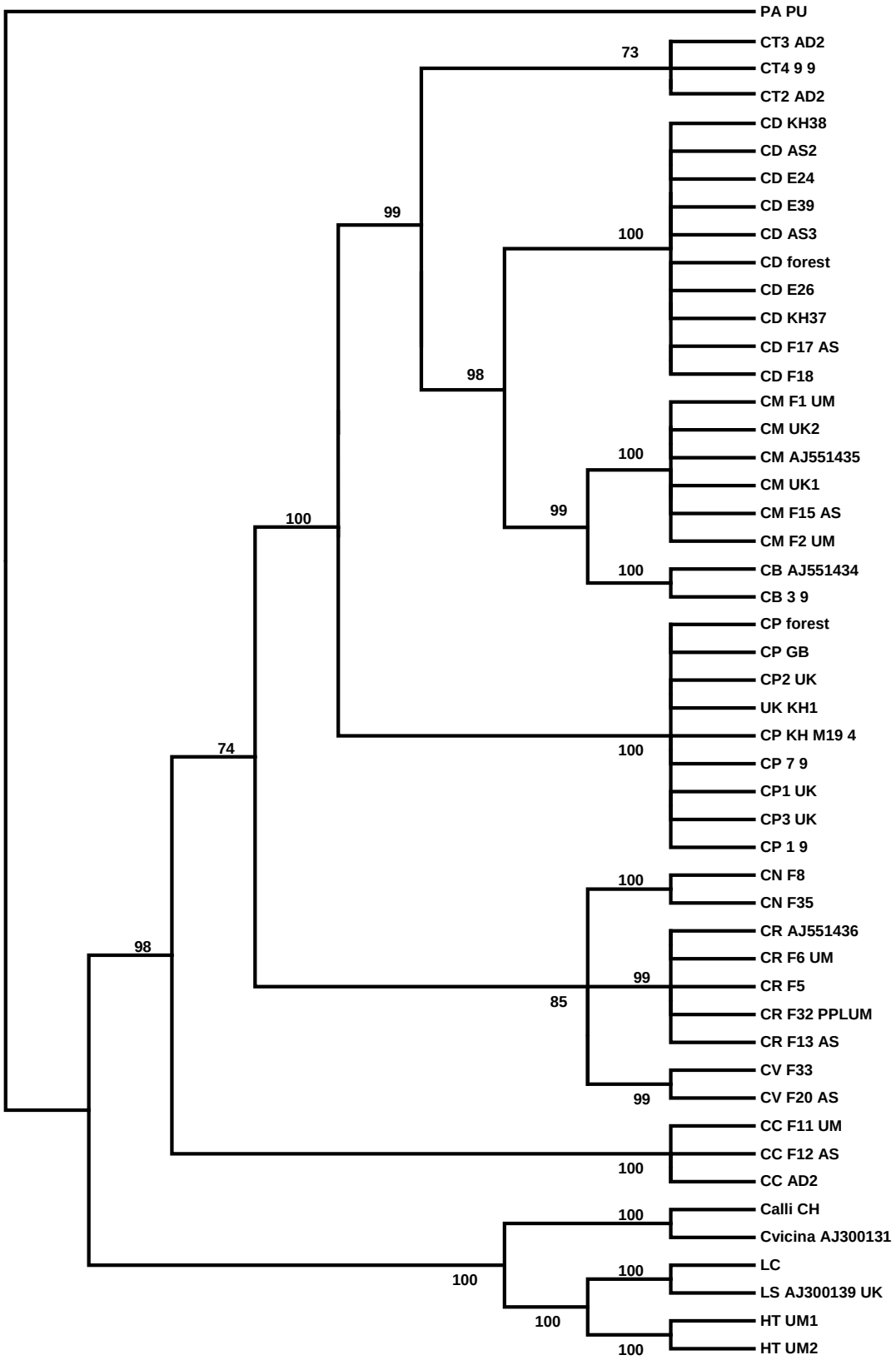

Figure: Bayesian consensus phylogeny of Calliphoridae species of 2172bp 28S rDNA sequences using MrBayes 3.1.2 and rooted with *Parasarcophaga albicpes* (Sarcophagidae) as the outgroup. The number on the internal branches represents Bayesian posterior probabilities (n=1 million) with 70% cut off value.

Appendix B-7

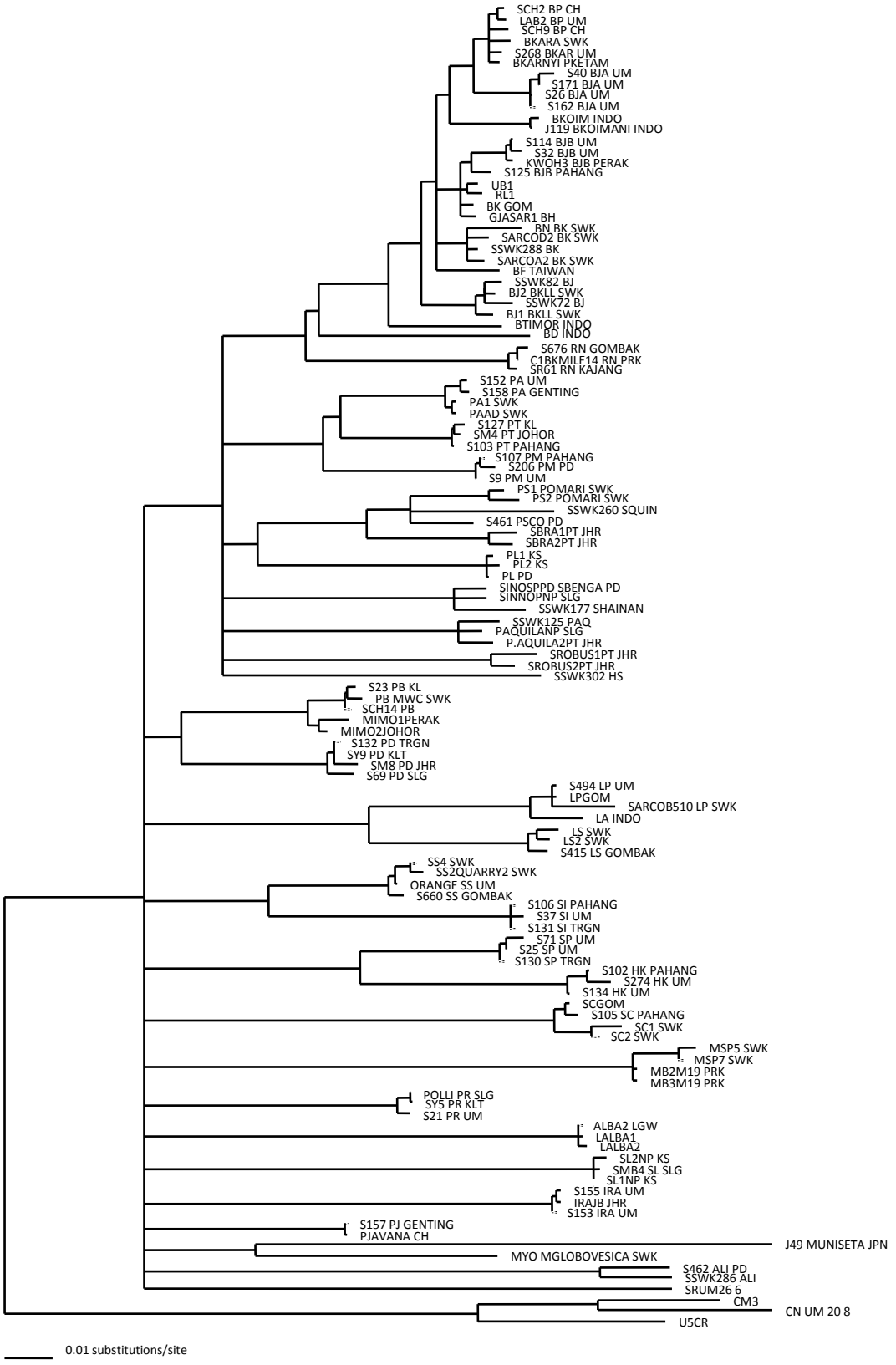

Figure: The NJ tree of Sarcophagidae species was constructed on the basis of 2308bp mitochondrial COI and COII gene sequences using PAUP* 4.0b10 and rooted with three Calliphoridae species as the outgroup. The number on the internal branches represents bootstrap values (n=10000) with 70% cut off value.

Appendix B-8

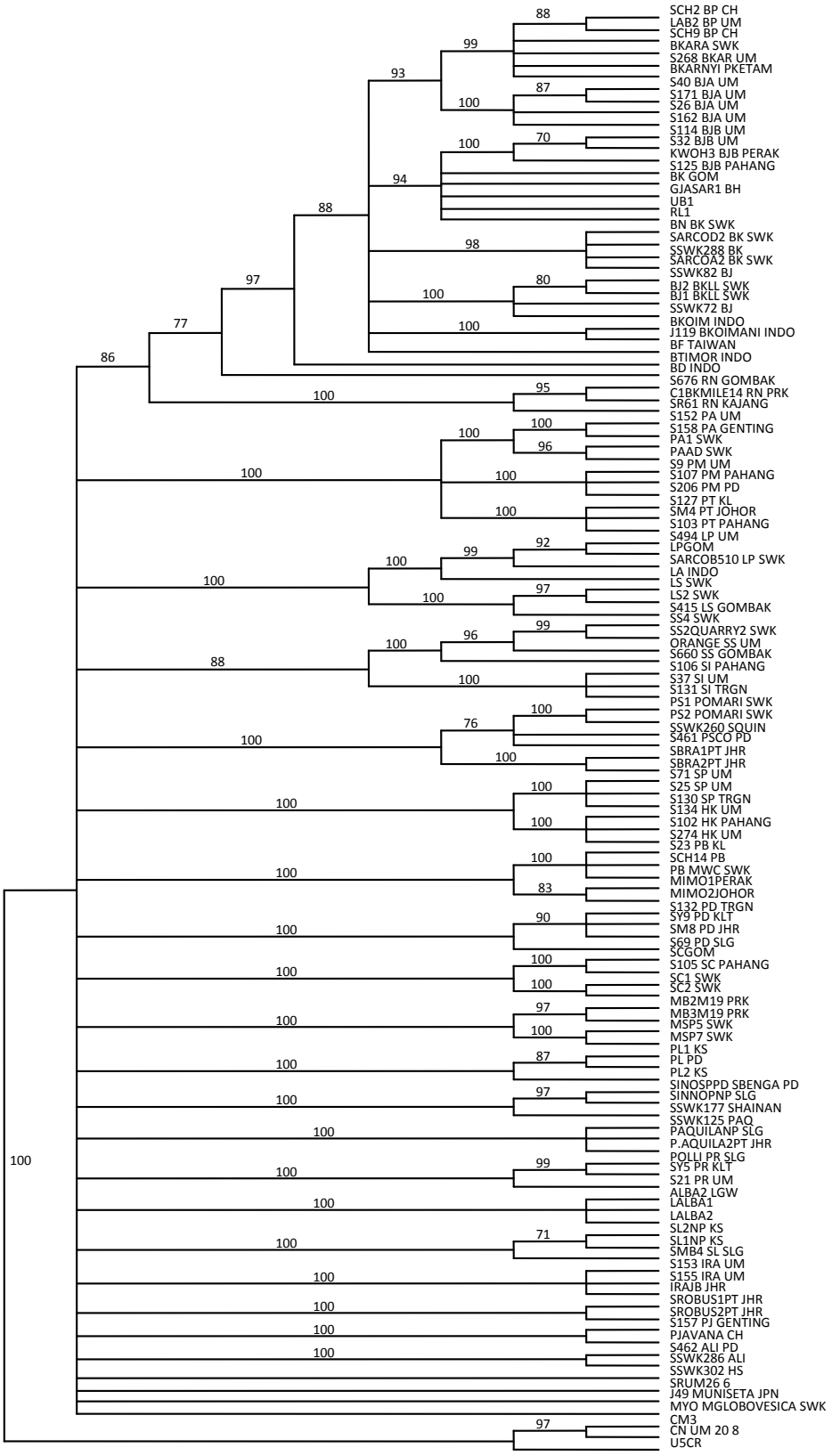

Figure: The MP tree of Sarcophagidae species was constructed on the basis of 2308bp mitochondrial COI and COII gene sequences using PAUP* 4.0b10 and rooted with three Calliphoridae species as the outgroup. The number on the internal branches represents bootstrap values (n=10000) with 70% cut off value.

Appendix B-9

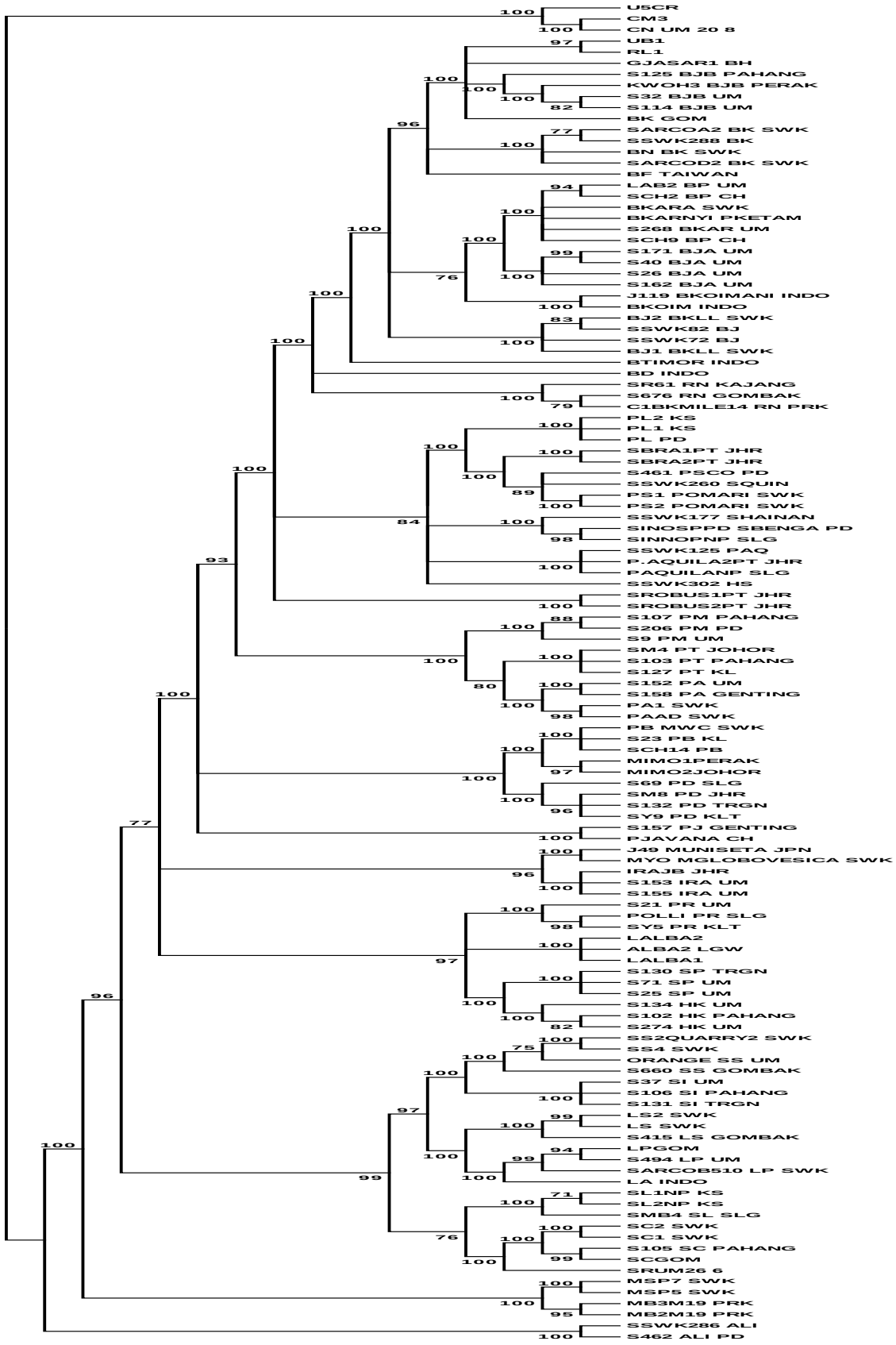

Figure: Bayesian consensus phylogeny of Sarcophagidae species of 2308bp mitochondrial *COI* and *COII* gene sequences using MrBayes 3.1.2 and rooted with three Calliphoridae species as the outgroup. The number on the internal branches represents Bayesian posterior probabilities (n=1 million) with 70% cut off value.

Appendix C – Publication

1. Tan S.H., Rizman-Idid M., Mohd-Aris E., Kurahashi H. and Mohamed Z., 2010. DNA-based characterisation and classification of forensically important flesh flies (Diptera: Sarcophagidae) in Malaysia. *Forensic Science International* **199**: 43–49.

2. Tan S.H., Mohd Aris E., Kurahashi H. and Mohamed Z., 2010. A new record of *Iranihindia martellata* (Senior-White, 1924) (Diptera: Sarcophagidae) from peninsular Malaysia and female identification using both morphology and DNA-based approaches. *Tropical Biomedicine* **27(2)**: 287–293.

Appendix D
List of proceedings/seminar/conference papers

Year		Title of proceedings/seminar/conference papers
2010	Oral	Tan, S.H., Mohd-Aris, E., Nazni, W.A., Lee, H.L., Kurahashi, H., and Mohamed, Z. Assessment of morphology- and DNA-based identifications for entomological specimens of three selected forensic cases in Malaysia. 46th Annual Scientific Conference of Malaysian Society of Parasitology and Tropical Medicine, Grand Seasons Hotel, Kuala Lumpur, Malaysia (25 March 2010)
2009	Poster	**Winner of the Honourable Mention Aawards* Tan, S.H., Mohd-Aris, E., Kurahashi, H. and Mohamed, Z. Genetic relationships between fifteen blow fly species (Calliphoridae) of forensic importance in Malaysia. The 14th Biological Science Graduate Congress, Chulalongkorn University, Bangkok, Thailand (10-12 December 2009)
2009	Oral	Tan, S.H., Mohd-Aris, E., Rizman-Idid, M., Kurahashi, H. and Mohamed, Z. Phylogenetic analysis of some forensically important Malaysian flesh fly species (Diptera: Sarcophagidae) based on cytochrome oxidase I and II sequence. Applied Population Genetics In Fisheries And Aquaculture Data Clinic, 8th Residential College, University of Malaya, Kuala Lumpur, Malaysia (12 November 2009)
2009	Oral	Tan, S.H., Mohd-Aris, E., Kurahashi, H. and Mohamed, Z. Roles of forensic entomology. Public lecture, Sarawak Museum, Kuching, Sarawak, Malaysia (8 October 2009)
2009	Poster	**Winner of the second prize of best poster presenter for overall category* Tan, S.H., Mohd-Aris, E., Kurahashi, H. and Mohamed, Z. Genetic relationships between eight blow fly species (Calliphoridae: Chrysomya) of forensic importance in Malaysia. 18th Malaysian Society for Molecular Biology and Biotechnology Scientific Meeting, The Saujana Kuala Lumpur Hotel, Subang Jaya, Malaysia (18-20 August 2009)

Proceedings/Seminar/Conference papers *(continued)*

Year		Title/Conference
2008	Oral	Tan, S.H., Mohd-Aris, E., Kurahashi, H. and Mohamed, Z. DNA-based characterisation of some forensically important flesh fly species (Diptera: Sarcophagidae) in Malaysia. The 19th International Symposium on the Forensic Sciences: Domestic Crime to International Terror: Forensic Science Perspecitves, Melbourne Convention Centre, Melbourne, Australia (6-9 October 2008)
2007	Poster	Tan, S.H., Mohd-Aris, E., Kurahashi, H. and Mohamed, Z. DNA-based identification of some forensically important flesh flies (Diptera: Sarcophagidae) in Malaysia. International DNA Symposium, Forensic DNA: Now and Beyond, Hilton Hotel, Kuala Lumpur, Malaysia (12-13 November 2007)
2007	Oral	Tan, S.H. DNA-based characterisation of forensically important fly species in Malaysia. Seminar, Department of Medical Entomology, National Institute of Infectious Diseases, Tokyo, Japan (8 June 2007)
2006	Poster	Tan, S.H., Mohd-Aris, E., Kurahashi, H. and Mohamed, Z. Use of PCR-RFLP to differentiate five flesh flies (Diptera: Sarcophagidae) of potential forensic importance in Malaysia. 9th Asia-Pacific International Molecular Biology Network Conference and 16th Malaysian Society Molecular Biology & Biotechnoly Scientific Meeting. Legend Hotel, Kuala Lumpur, Malaysia (3-5 September 2006)
2006	Poster	Tan, S.H., Mohd-Aris, E., and Mohamed, Z. Use of PCR-RFLP assay to identify the forensically important blow fly species (Diptera: Calliphoridae) in Malaysia. 3rd Life Sciences Postgraduate Conference, University Science Malaysia, Penang, Malaysia (24-27 May 2006)
2006	Oral	Tan, S.H. DNA-based characterization of forensically important fly species in Malaysia. International Networking of Young Scientists, University of Science Malaysia, Kelantan, Malaysia (13-15 February 2006)

Proceedings/Seminar/Conference papers *(continued)*

Year		Title/Conference
2005	Poster	**Winner of the Bronze Medal for Fundamental Research Category* Tan, S.H., Mohd-Aris, E., and Mohamed, Z. Use of mitochondrial DNA sequences for differentiation of forensically important insect species in Malaysia. Research Invention & Innovation Expo, University Malaya, Kuala Lumpur, Malaysia (14-17 June 2005)
2004	Poster	Tan, S.H., Mohd-Aris, E., and Mohamed, Z. Species-specific PCR assay for two forensically important species, *Chrysomya megacephala* and *Chrysomya rufifacies* in Malaysia. 14th Malaysian Society Molecular Biology & Biotechnoly Scientific Meeting. Century Mahkota Hotel, Melaka, Malaysia (19-21 July 2004)
2003	Poster	Tan, S.H., Mohd-Aris, E., Zakaria, I., Jeffrey, J., Krishnan, K.R., and Mohamed, Z. Use of mitochondrial DNA sequences for identification of forensically important insect species in Malaysia. 14th National Biotechnology Seminar, Mutiara Hotel, Penang, Malaysia (11-13 December 2003)