

REFERENCES

ภาษาไทย

- กวี วรกวิน, 2546. แอตลาสประเทศไทย ภายภาพ รายจังหวัด. พิมพ์ครั้งที่ 1. กรุงเทพมหานคร: สำนักพิมพ์บริษัทพัฒนาคุณภาพวิชาการ (พว.).
- ลาวัลย์ รักสัตย์, 2544. สปอร์และเรณู. ม.ป.ท., ม.ป.ป.

ภาษาอังกฤษ

- Ampaiwan, T. 2000. Tertiary Palynology of Coal-Bearing Unit in Mae Ramat Basin, Tak Province. Bachelor Degree, Department of Geology, Faculty of Science, Chulalongkorn University.
- Brasier, M.D. 1981. Microfossils. 2nd ed. London: George Allen & Unwin.
- Bunchalee, P. 2004. The Preliminary checklist of Plants Along the Mun River in Chaloe Phra Kiat District and Non Sung District, Nakhon Ratchasima Province. A Report of Special Topics in Earth Science (2307683), Department of Geology, Faculty of Science, Chulalongkorn University.
- Charusiri, P., Daorerk, V., Krowchan, V., Klongsara, N., Kosuwan, S., Srirattachatchawan, V. and Santatiwongchai, U. 2002. Quaternary Tektites and Their Sediment Hosts at Ban Tachang Sand Pit, Chaloe Prakiat, Nakhon Ratchasima, NE Thailand: Stratigraphy and TL Ages. The Symposium on Geology of Thailand. Aug. 26-31, pp. 178-180. Bangkok, Thailand.
- Chuaviroj, S. 1997. Deformations in Khorat Plateau, Thailand. The International Conference on Stratigraphy and Tectonic Evolution of Southeast Asia and the South Pacific. Aug. 19-24, pp. 321-325. Bangkok, Thailand.
- Department of Mineral Resources. 1997. Geological Map of Thailand. scale 1:1,000,000. Geological Survey Division, Department of Mineral Resources, Bangkok, Thailand.
- Erdtman, G. 1952. Pollen Morphology and Plant Taxonomy. An Introduction to Palynology. Vol. 1. : Stockholm: Almqvist & Wiksell.

- Moore, P.D., Webb, J.A. and Collinson, M.E. 1991. Pollen Analysis. 2nd ed. Great Britain: Blackwell scientific Publications.
- Nakchaiya, T. 2002. The High Gravel Bed's at Ban Nong Bua Ri, Changwat Nakorn Ratchasima. Bachelor Degree, Department of Geology, Faculty of Science, Chulalongkorn University.
- Ratanasthien, B. 1984. Spore and Pollen Dating of Some Tertiary Coal and Oil Deposits in Northern Thailand. Proceeding of the Conference on Applications of Geology and the National Development, Chulalongkorn University. Nov. 19-22, pp. 273-280. Bangkok, Thailand.
- Ratanasthien, B. and Haraluck, M. 1988. Palynological Evidences of Fang Oil-Bearing Formation. Proceedings of the Annual Technical Meeting 1987, Department of Geological Sciences, Chiang Mai University. Jan. 29-30, pp. 83-98. Chiang Mai, Thailand.
- Royal Thai Survey Department. (n.d.). The topographic map of Amphoe Non Sung, map scale 1: 50,000, sheet 5439 II, series L7017. 3rd ed. Bangkok: Royal Thai Survey Department.
- Sangsuwan, C., Jongkanjanasontorn, Y. and Hillen, R. 1986. A Palynological Study of the Bangkok Clay at Senanivate Pit, Bangkok Metropolis. Proceedings of the CCOP Symposium on "Developments in Quaternary Research in East & Southeast Asia During the Last Decade". Oct. 27-30, pp. 1197-205. Bangkok, Thailand.
- Santisuk, T. 2546. Vegetation types of Thailand [Online]. Available from: http://www.dnp.go.th/Botany/Vegetation%20types/vegetation_type.htm [2546, January 4]
- Sato, Y. 2002. Preliminary Report on the Occurrence of Fossils Mammals in Nakhon Ratchasima, Northeast Thailand. Proceeding of the symposium on Geology of Thailand. Aug. 26-31, pp. 230-232. Bangkok, Thailand.
- Shivanna, K.R. and Rangaswamy, N.S. 1992. Pollen Biology. A Laboratory Manual. Calcutta: Narosa Publishing House.
- Singhawisai, W. 1996. Thailife, the Wild Flowers of Thailand. 2nd ed . n.p.: Rung Silp Printing (1977) Co., Ltd.

- Sinsakul, S., Chaimanee, N. and Tiyaipairach, S. 2002. Preliminary Report on the Occurrence of Fossils Mammals in Nakhon Ratchasima, Northeast Thailand. Proceeding of the symposium on Geology of Thailand. Aug. 26-31, pp. 170-180. Bangkok, Thailand.
- Sun, X., Luo, Y., Huang, F., Tian, J. and Wang, P. 2003. Deep-Sea Pollen from the South China Sea: Pliocene Indicators of East Asian Monsoon. Marine Geology. 201: 97-118.
- Thai LTD Travel. 2003. Climate of Nakhon Ratchasima [Online]. Available from: <http://travel.thailtd.com> [2004, January 7]
- Yahoo!® Travel. 2005. Thailand vacation, tourism, hotels [Online]. Available from: http://travel.yahoo.com/p-travelguide-191501666-thailand_vacations. [2005, December 19]
- Udomchoke, V. 1988. Quaternary Stratigraphy of the Khorat Plateau Area Northeastern Thailand. Proceedings of the Workshop on Correlation of Quaternary Successions in South, East and Southeast Asia. Nov. 21-24, pp. 69-94. Bangkok, Thailand.
- UNEP Environment Assessment Programme for Asia and the Pacific (UNEP/EAP.AP). 2006. Thailand [Online]. Available from: <http://www.rrcap.unep.org/lc/cd/html/thailand.html> (2006, January 7)
- Walker, R.G. 1984. Facies Models. 2nd ed. Ontario: Ainsworth Press Limited.
- Walter, D.R. and Keil, D. 1996. Vascular Plant Taxonomy. 4th ed. United states: Kendall/Hunt Publishing Company.
- Wannakoaw, P. 2004. Pollen Analysis for Vegetation and Climatic Changes in Holocene Period at Thung Salang Luang National Park, Pitsanulok Province. Master Degree, Department of Geology, Faculty of Graduate Studies, Mahidol University.
- Watanasak, M., Songtham, W. and Mildenhall, D. 1995. Age of the Susan Hoi (Shell Fossil Cemetery) Krabi Basin, Southern Thailand. International Conference on Geology, Geotechnology and Mineral Resources of Indochina (Geo-Indo' 95). Nov. 22-25, pp. 163-168. Khon Kaen, Thailand.

APPENDICES

Plate 1 (S08)

Figs. i-iv. *Polypodium* type A

Figs. v-vi. *Ceratopteris* type A

Figs. vii-xi. Cyatheaceae type A

Figs. xii-xiv. Cyatheaceae type B

Figs. xv-xxi. *Cyathea* type A

Figs. xxii-xxv. Dicksoniaceae type A

Figs. xxvi-xxviii. *Lycopodium* type

Plate 1 (S08)

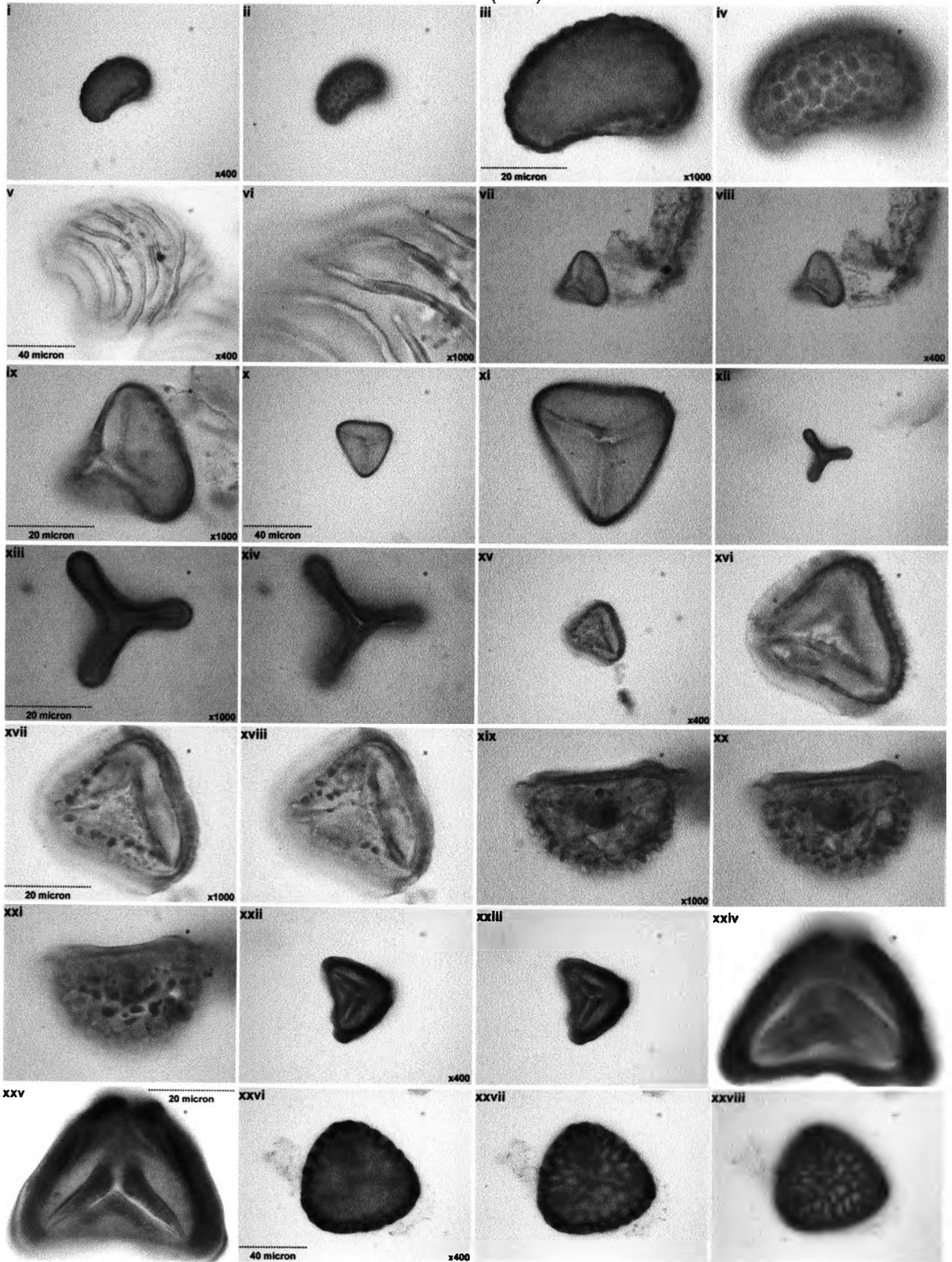


Plate 2 (S08)

Fig. xxix. *Lycopodium* type

Figs. xxx-xxxii. *Darcrycarpus* type

Figs. xxxiii-xxxv. *Pinus* type A

Figs. xxxvi-xxxvii. Cyperaceae type A

Figs. xxxviii-xxxix. Cyperaceae type B

Figs. xl-xlvi. *Altingia* type

Plate 2 (S08)

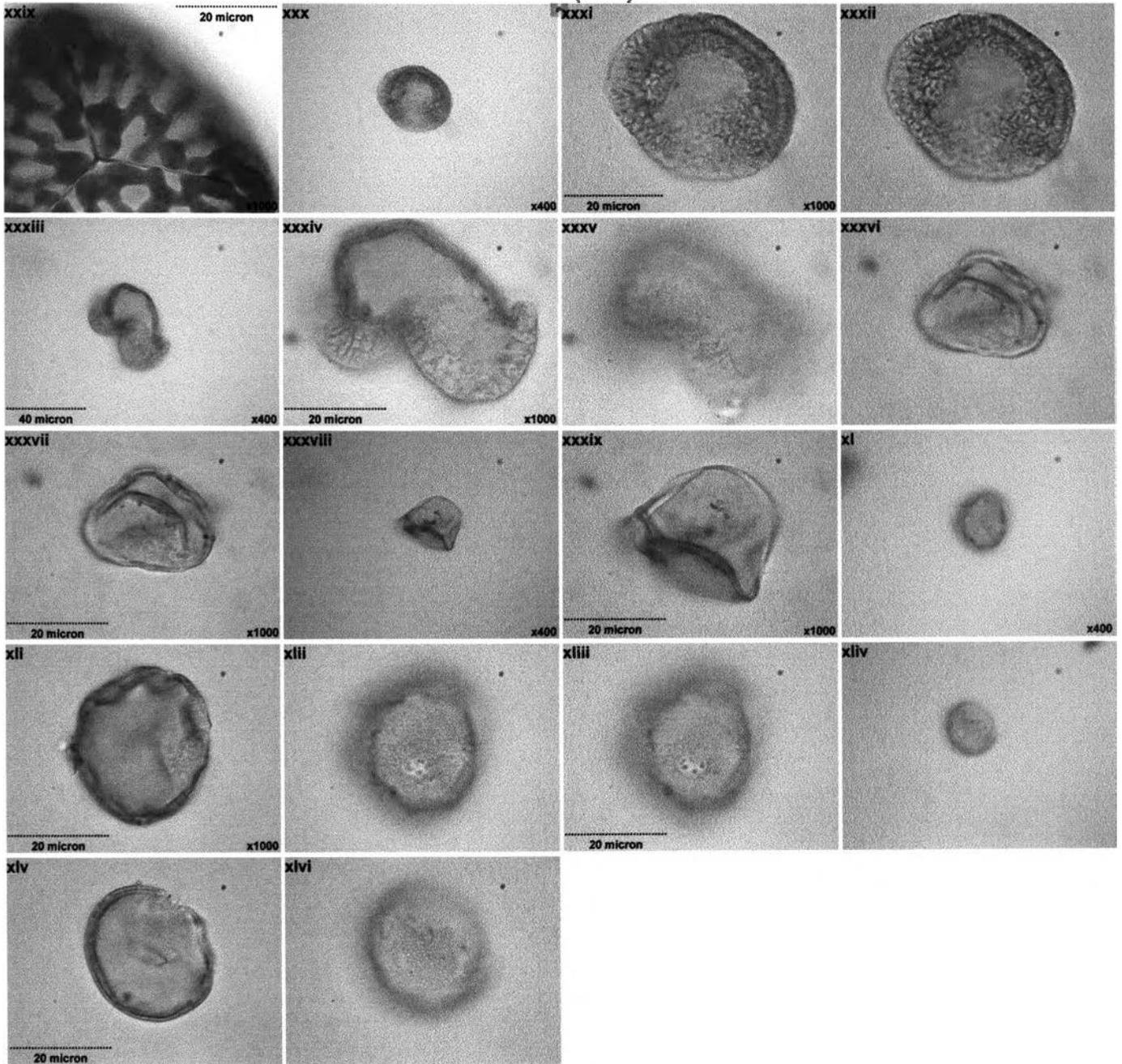


Plate 3 (S15)

Figs. i-v. *Dryopteris* type A

Figs. vi-ix. *Dryopteris* type B

Figs. x-xii. *Polypodium* type A

Figs. xiii-xiv. Cyatheaceae type A

Figs. xv-xvi. *Cyathea* type B

Figs. xvii-xix. Dicksoniaceae type A

Figs. xx-xxii. *Osmunda* type

Figs. xxiii-xxv. *Selaginella* type A

Figs. xxvi-xxviii. *Pinus* type A

Plate 3 (S15)

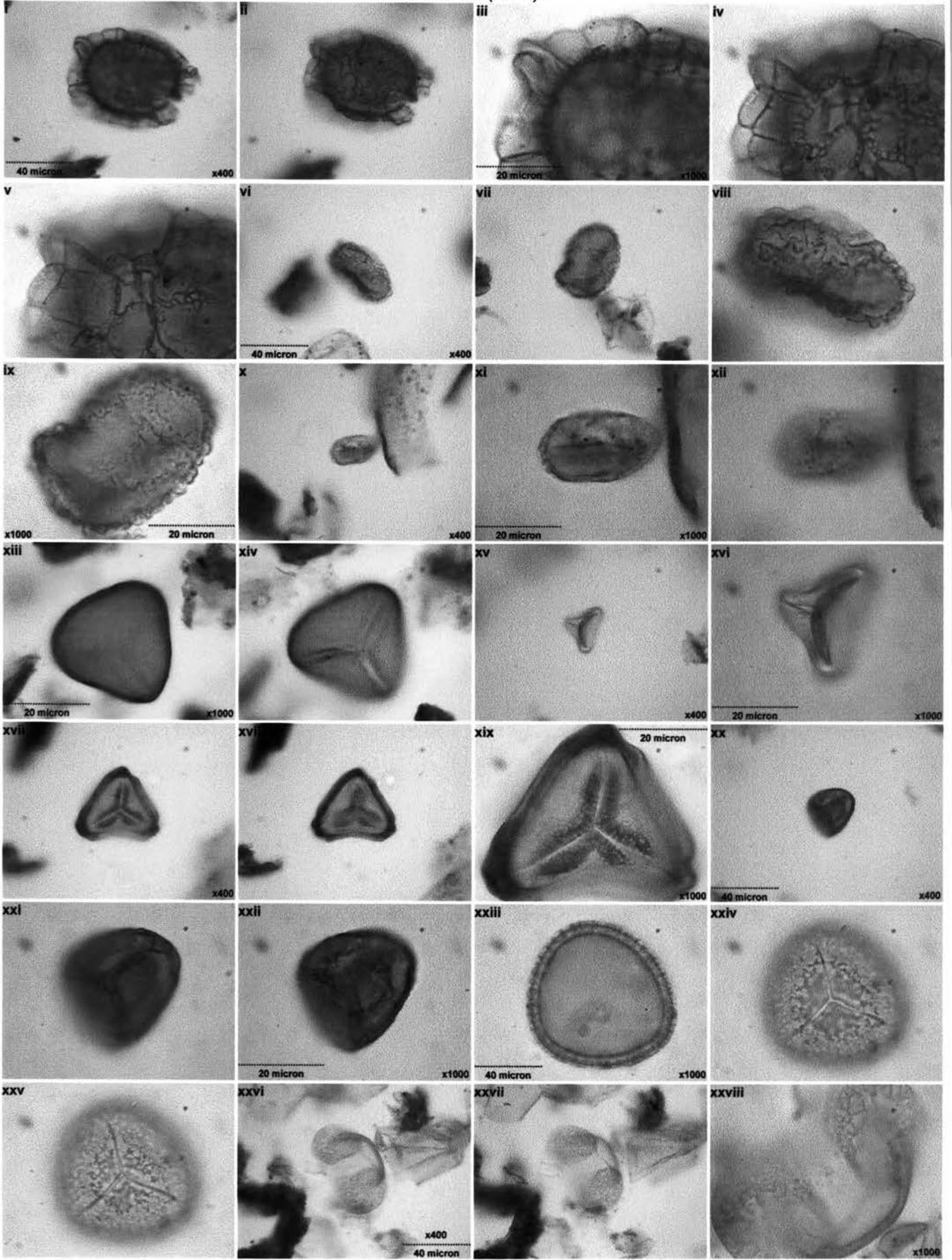


Plate 4 (S15)

Figs. xxix-xxx. Poaceae type A

Figs. xxxi-xxxiii. Poaceae type B

Figs. xxxiv-xxxvi. Cyperaceae type A

Figs. xxxvii-xl. *Sagittaria* type

Figs. xli-xliv. Asteraceae type C

Figs. xlv-xlvii. Caesalpinioideae type

Figs. xlviii-l. *Castanopsis* type A

Figs. li-liii. *Croton* type

Plate 5 (S16)

Figs. i-iii. Dryopteridaceae type A

Figs. iv-vi. Dryopteridaceae type B

Figs. vii-ix. *Polypodium* type A

Figs. x-xii. *Polypodium* type B

Figs. xiii-xv. *Ceratopteris* type A

Figs. xvi-xviii. *Cyathea* type B

Figs. xix-xxiii. *Lycopodium* type

Figs. xxiv-xxv. Pteridophyta type A

Figs. xxvi-xxviii. *Pinus* type A

Plate 5 (S16)

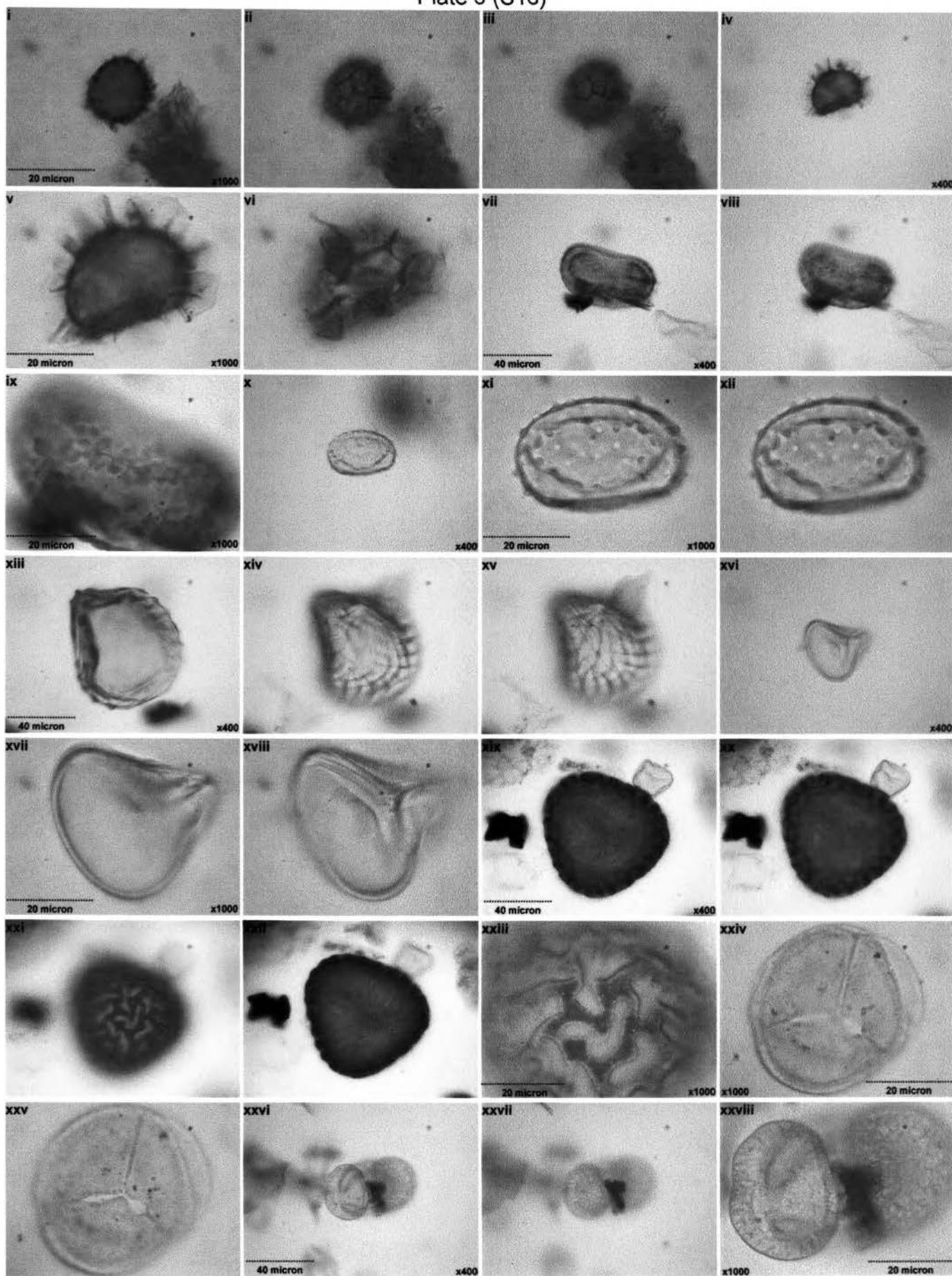


Plate 6 (S16)

Figs. xxix-xxx. Cyperaceae type C

Figs. xxx-xxxiii. Poaceae type A

Figs. xxxiv-xxxv. Poaceae type B

Figs. xxxvi-xxxix. *Altingia* type

Figs. xl-xlii. Asteraceae type C

Figs. xlili-xlvii. Caesalpinioideae type

Figs. xlviii-l. *Croton* type

Figs. li-liv. *Lemna* type

Figs. lv-lvi. *Tribulus* type

Plate 6 (S16)

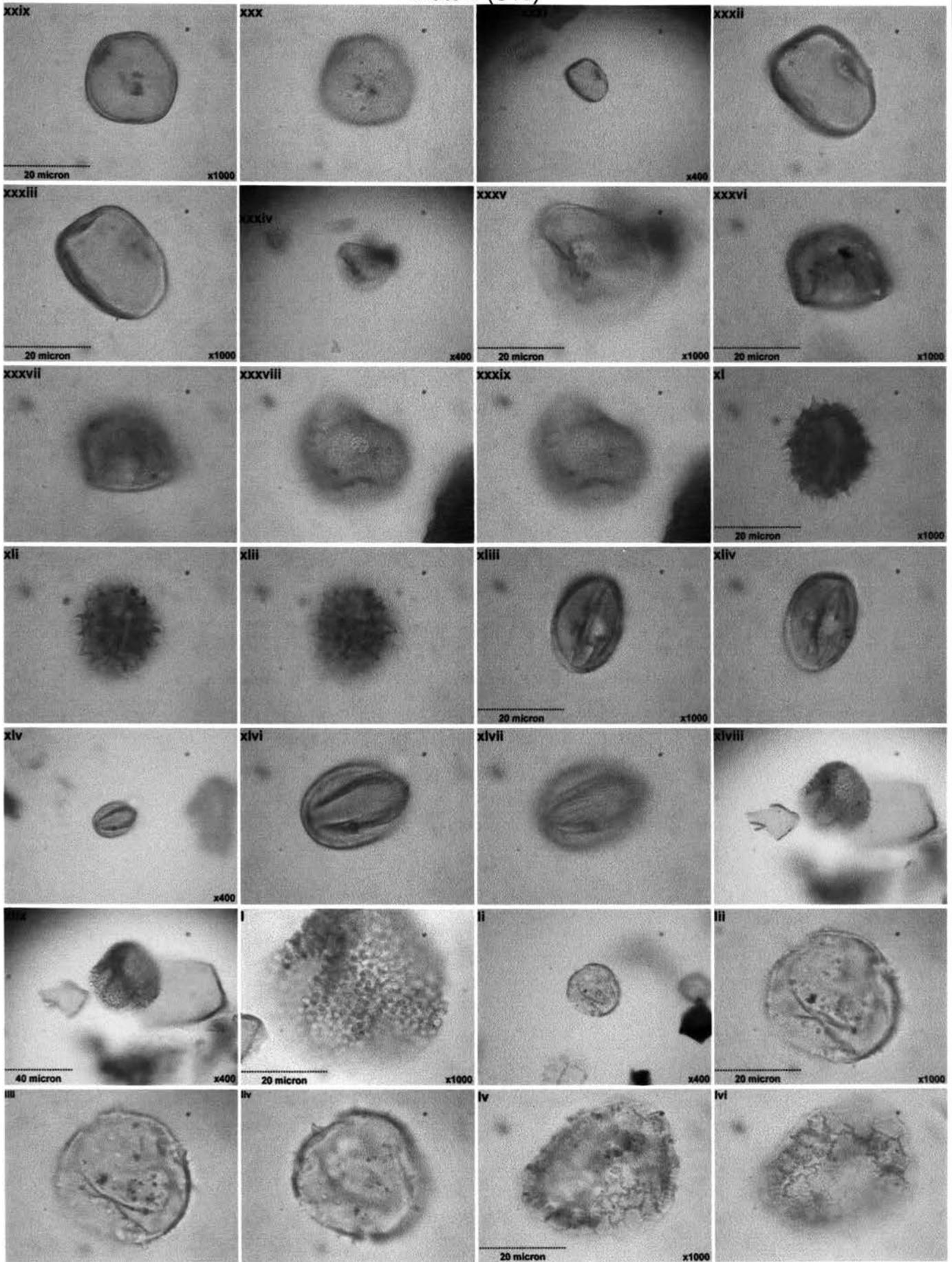


Plate 7 (S17)

Figs. i-ii. Cyatheaceae type A

Figs. iii-v. *Pinus* type A

Figs. vi-xiii. *Pinus* type B

Figs. xiv-xv. Poaceae type A

Figs. xvi-xx. *Borassus* type

Plate 7 (S17)

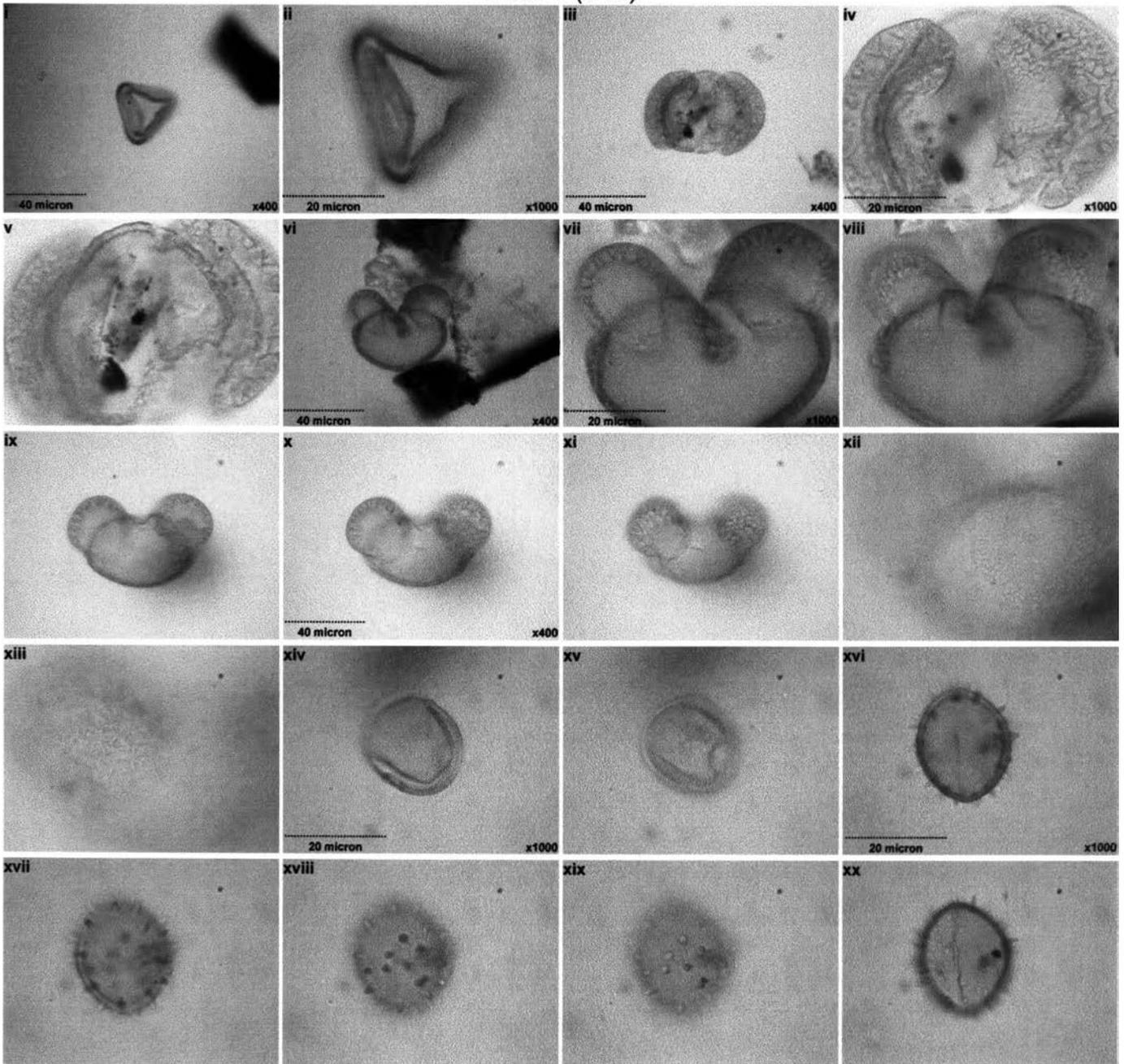


Plate 8 (S18)

Figs. i-iii. Aspleniaceae type

Figs. iv-vi. *Asplenium* type

Figs. vii-x. Polypodiaceae type

Figs. xi-xiii. Cyatheaceae type C

Figs. xiv-xvii. Cyatheaceae type A

Figs. xviii-xxi. *Cyathea* type C

Figs. xxii-xxiii. Dicksoniaceae type B

Figs. xxiv-xxvi. Pteridophyta type B

Figs. xxvii-xxviii. *Pinus* type A

Plate 8 (S18)

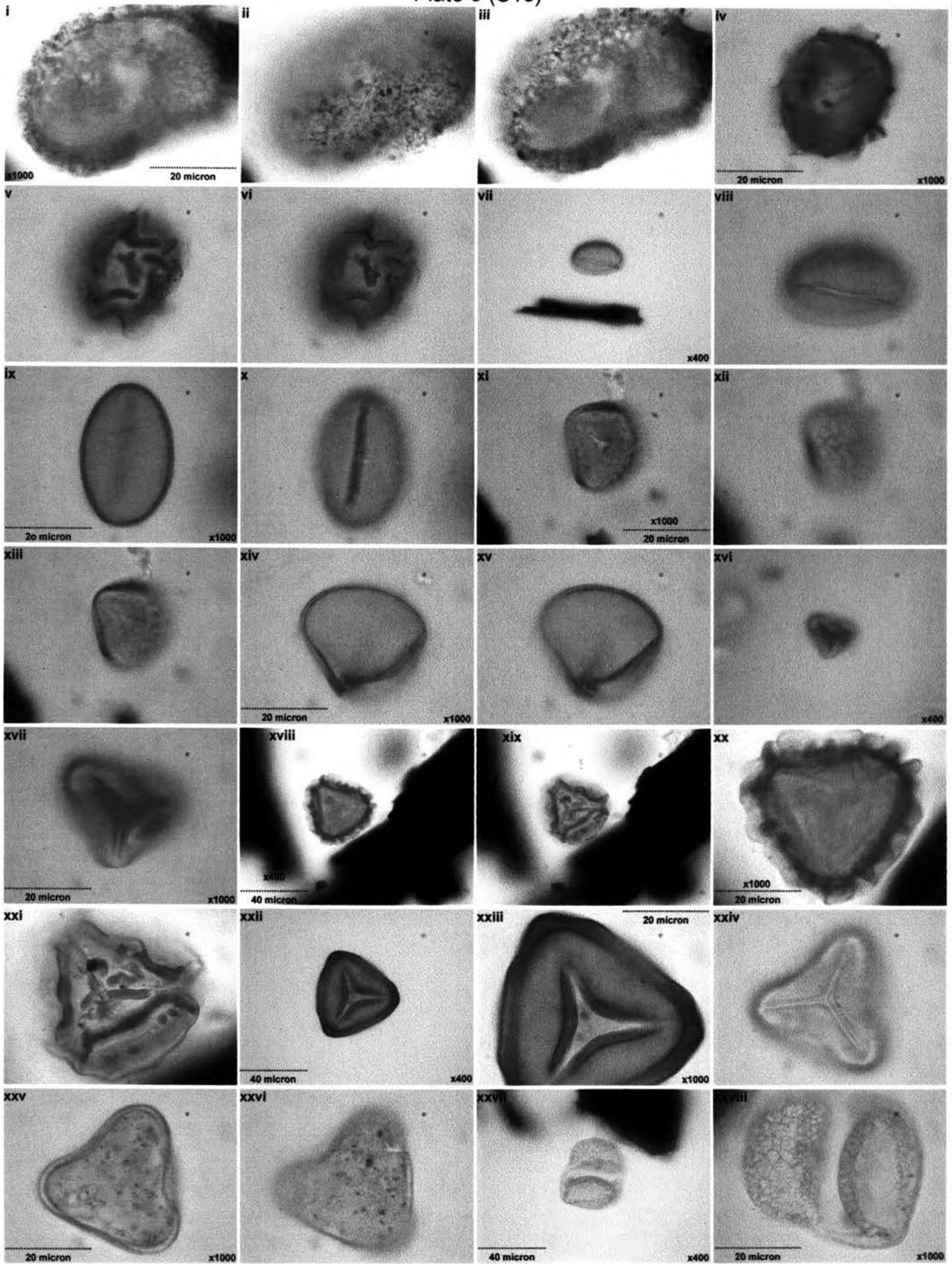


Plate 9 (S18)

Fig. xxix. *Pinus* type A

Figs. xxxi-xxxii. Poaceae type A

Figs. xxxiii-xxxiv. *Castanopsis* type A

Plate 9 (S18)

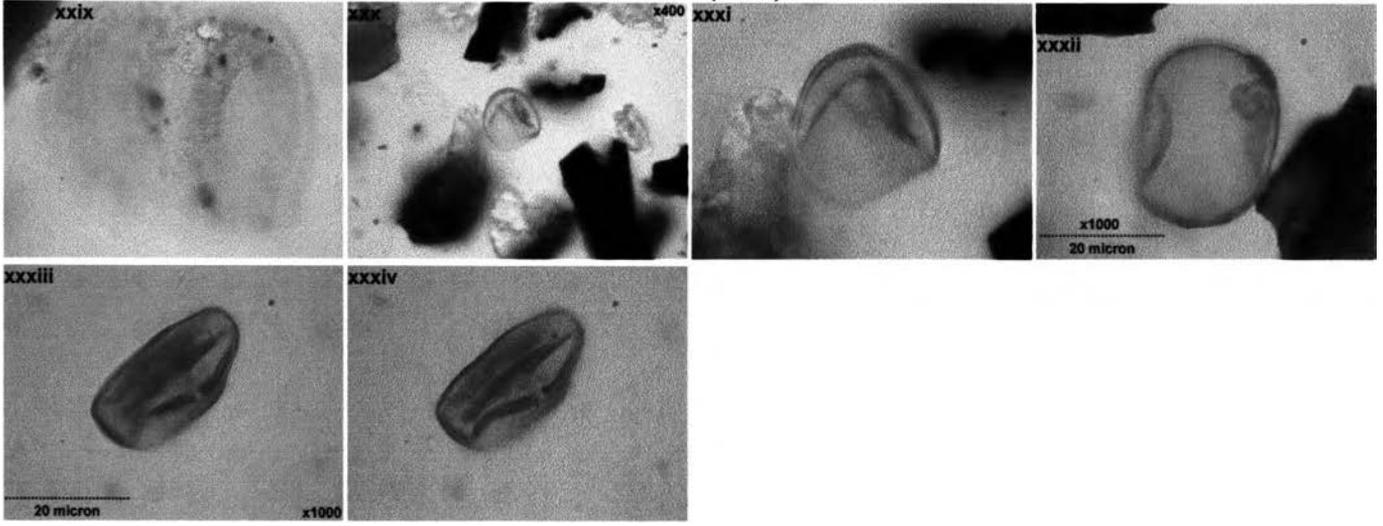


Plate 10 (S21)

Figs. i-ix. *Ceratopteris* type B

Figs. x-xii. *Selaginella* type B

Fig. xiii. Poaceae type A

Fig. xiv. *Mimosa* type

Plate 10 (S21)

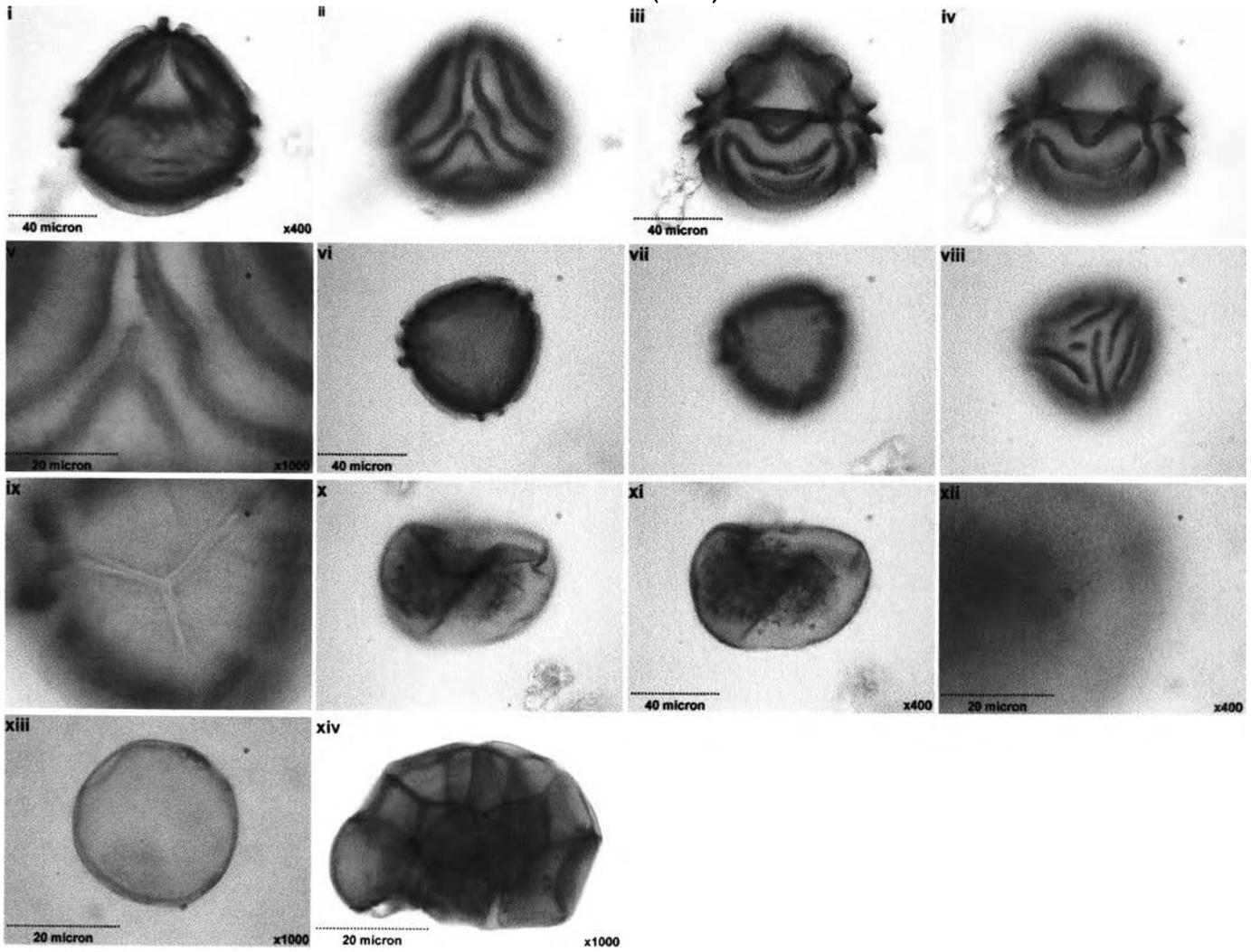


Plate 11 (S28)

Figs. i-iii. *Polypodium* type A

Figs. iv-v. Cyatheaceae type C

Figs. vi-ix. *Cyathea* type C

Figs. x-xiii. Dicksoniaceae type A

Figs. xiv-xv. Cyperaceae type D

Figs. xvi-xix. Poaceae type A

Figs. xx-xxii. *Altingia* type

Figs. xxiii-xxv. Asteraceae type A

Figs. xxvi-xxvii. Asteraceae type B

Fig. xxviii. *Croton* type

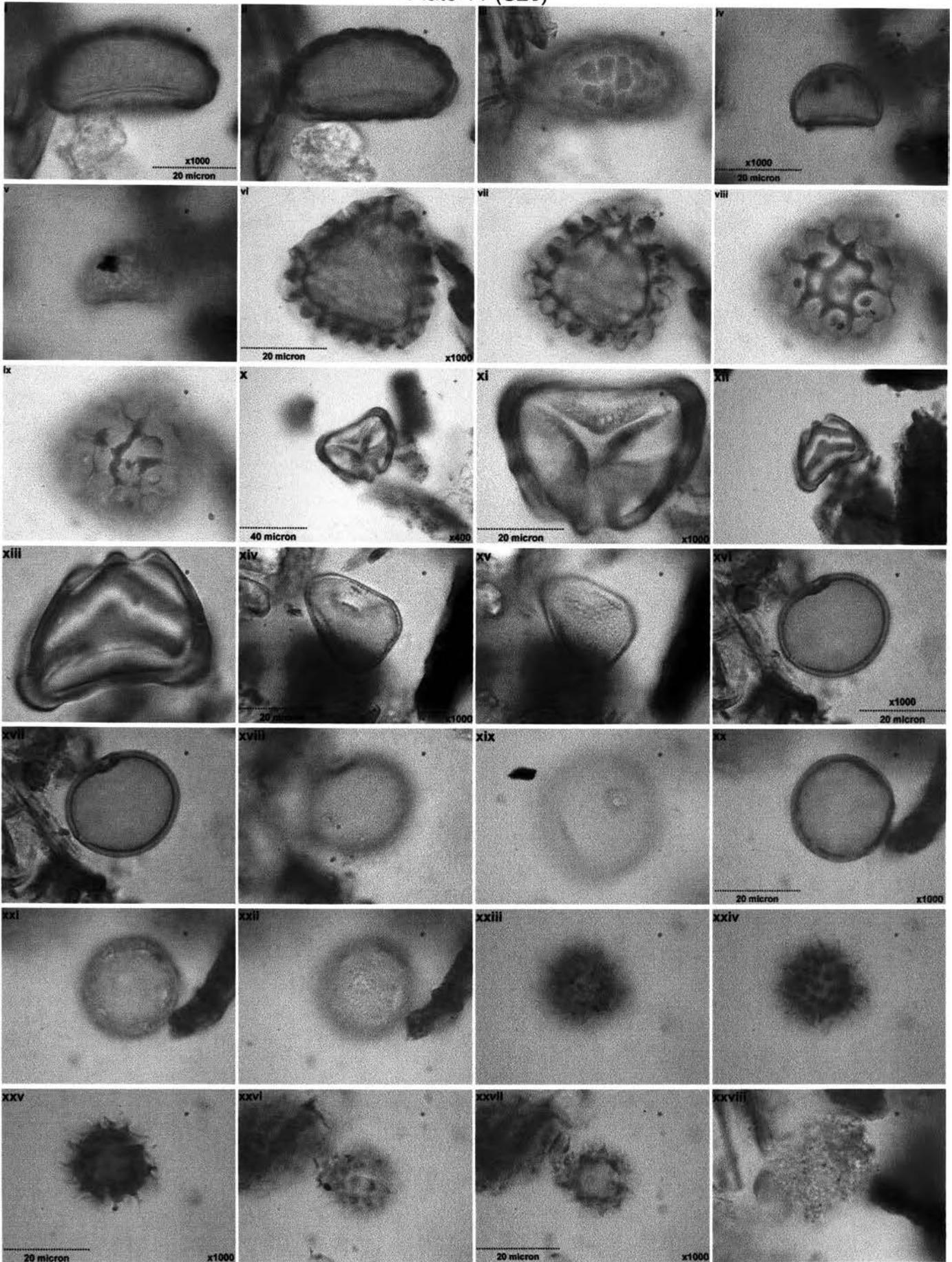


Plate 12 (S28)

Figs. xxx-xxxi. *Mimosoideae* type A

Figs. xxxii-xxxiii. *Mimosa* type

Figs. xxxiv-xxxv. *Pluricellaesporites* type

Figs. xxxvi-xxxvii. *Fusiformisporites* type A

Plate 12 (S28)

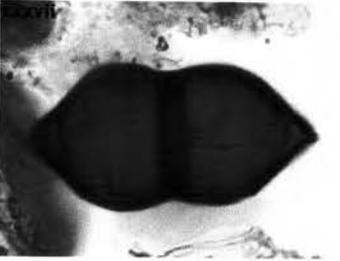
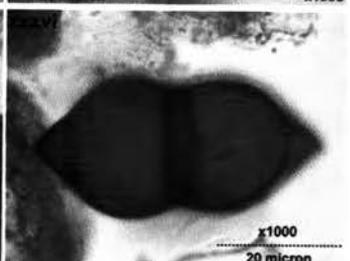
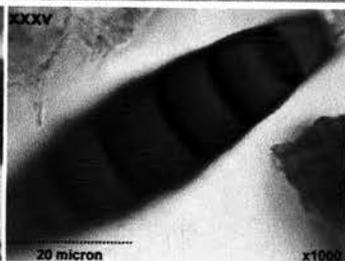
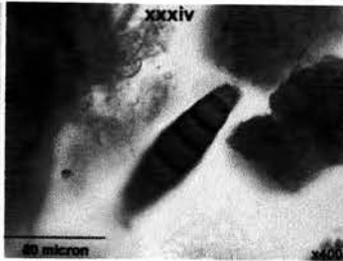
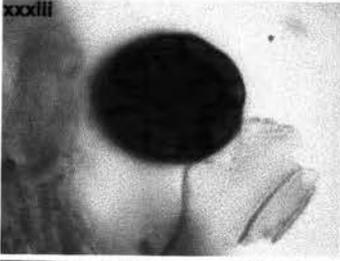
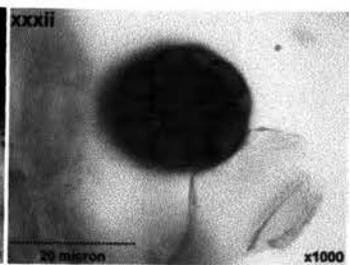
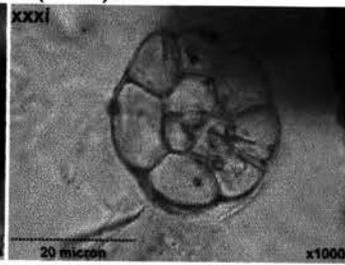
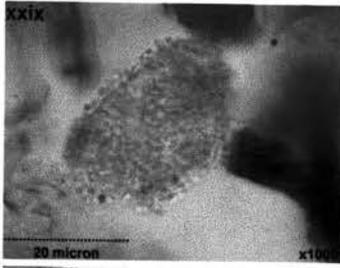


Plate 13 (S29)

Figs. i-ii. *Polypodium* type A

Figs. iii-vii. *Ceratopteris* type B

Figs. viii-ix. Dicksoniaceae type A

Plate 13 (S29)

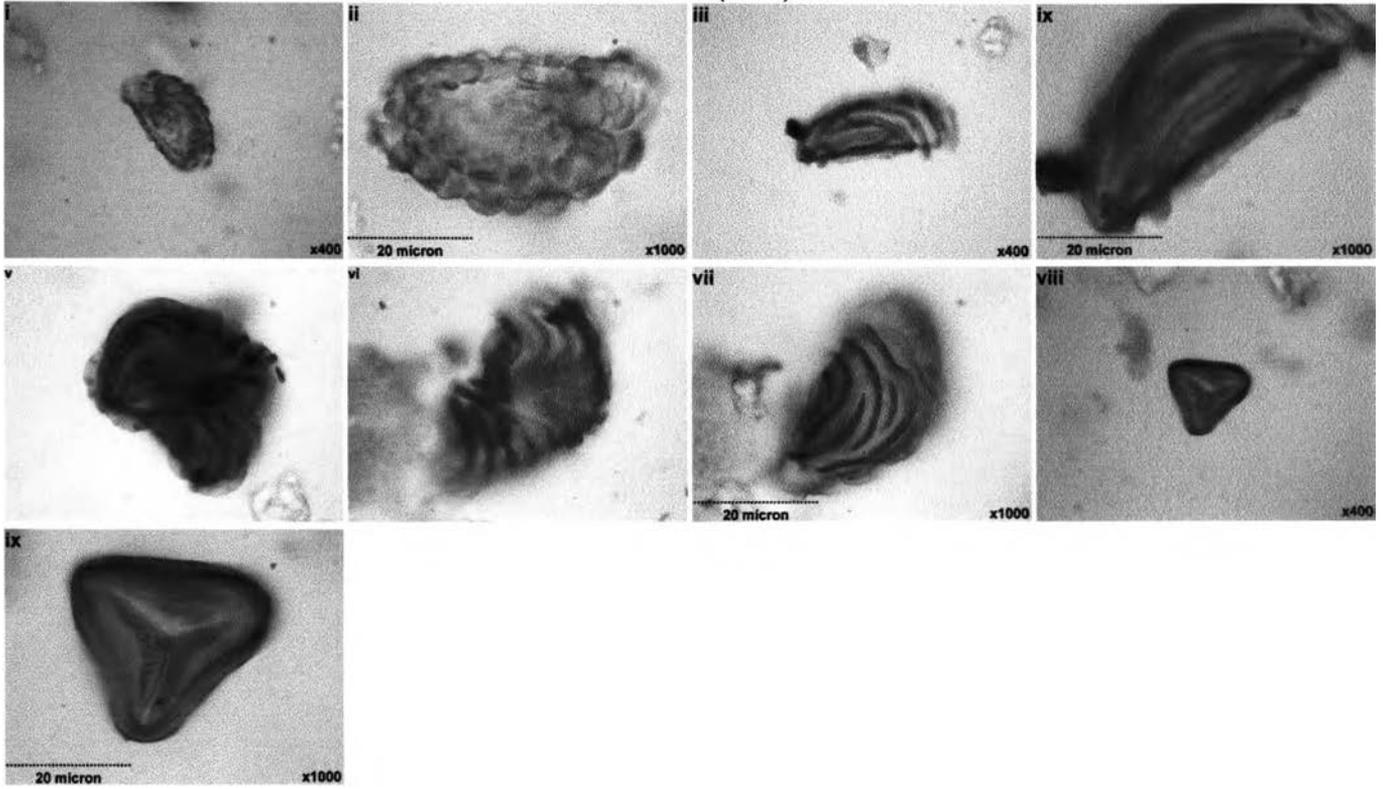


Plate 14 (S33)

Figs. i-iv. *Polypodium* type A

Figs. v-viii. *Ceratopteris* type B

Figs. ix-xii. Dicksoniaceae type A

Figs. xiii-xiv. Pinaceae type

Figs. xv-xx. Poaceae type A

Figs. xxi-xxv. *Altingia* type

Figs. xxvi-xxviii. Asteraceae type B

Plate 14 (S33)

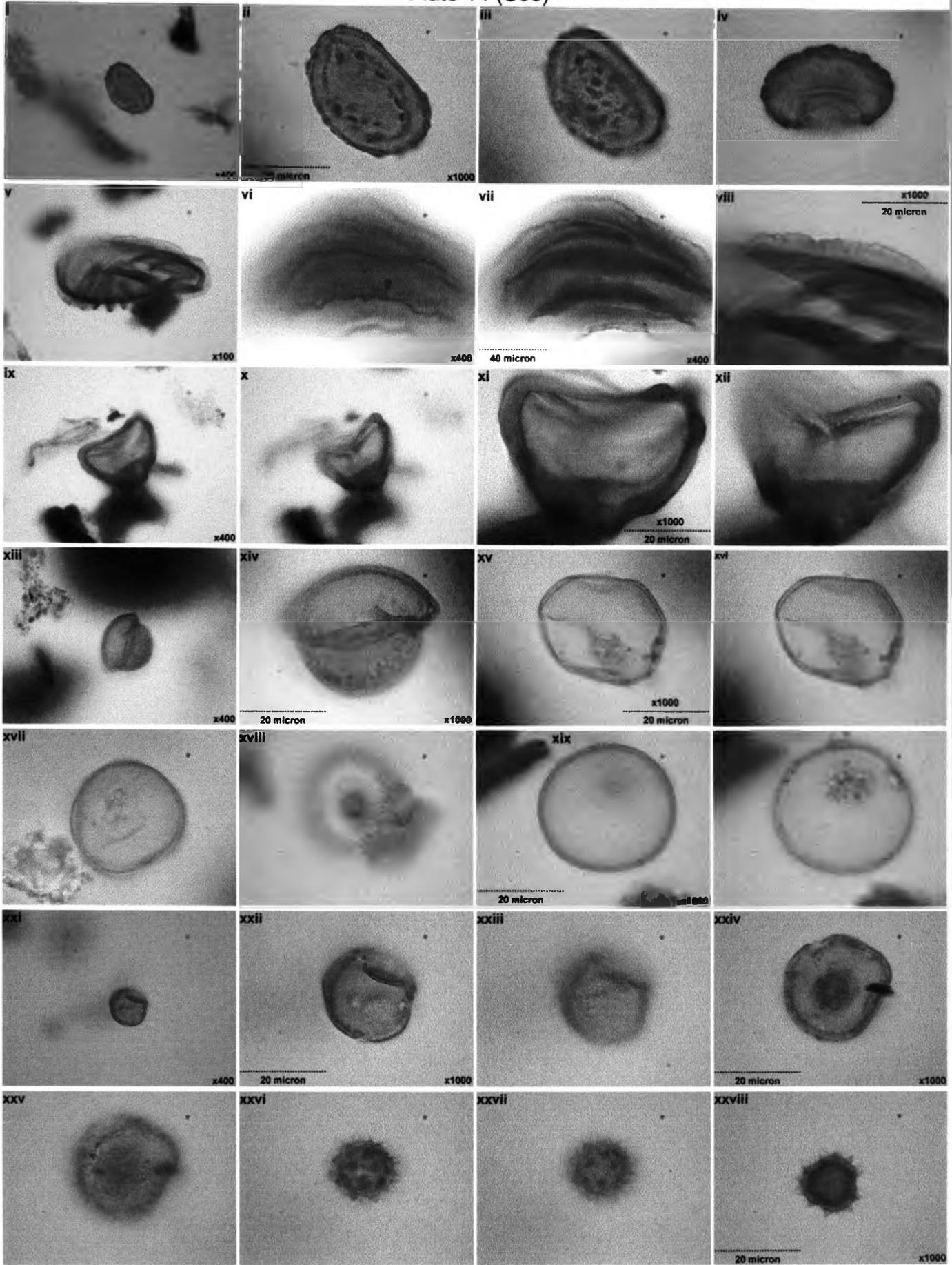


Plate 15 (S33)

Fig. xxix. Asteraceae type B

Figs. xxx-xxxiii. *Croton* type

Figs. xxxiv-xxxvi. *Mimosa* type

Plate 15 (S33)

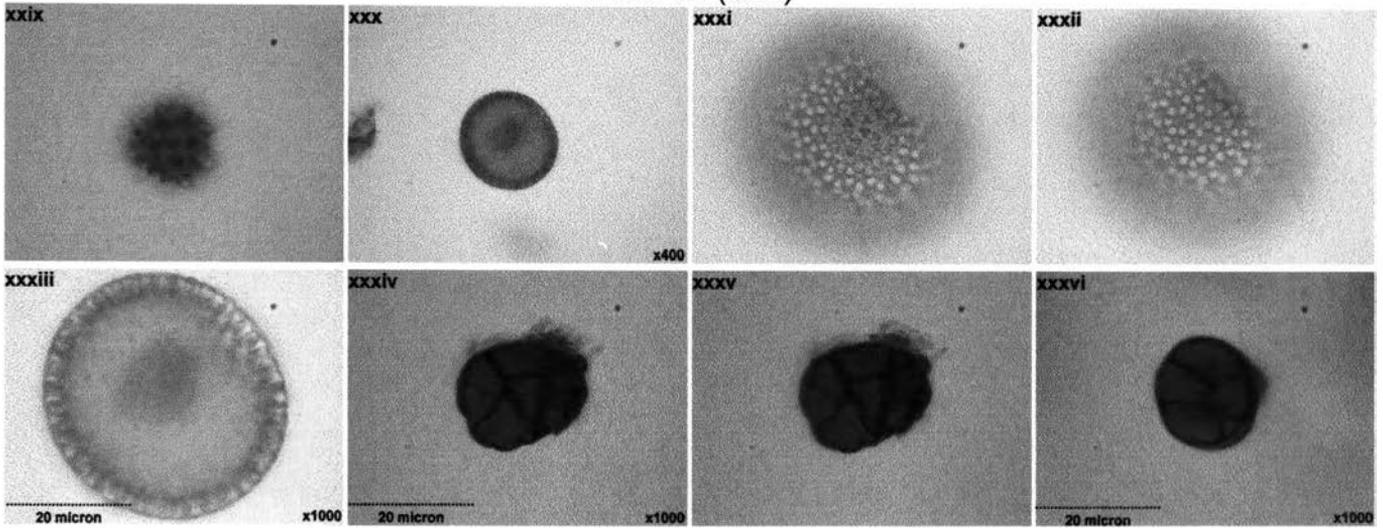


Plate 16 (S34)

Figs. i-iii. *Ceratopteris* type C

Figs. iv-v. *Fusiformisporites* type B

Plate 16 (S34)

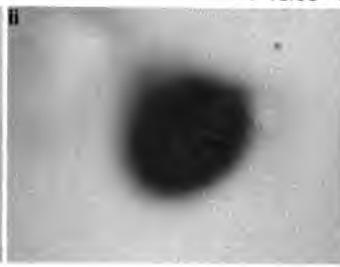
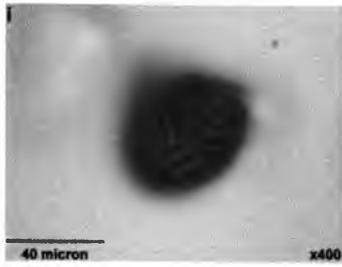


Plate 17 (S35)

Figs. i-ii. *Asplenium* type

Figs. iii-iv. *Filicopsida* type

Figs. v-vi. *Polypodium* type C

Figs. vii-x. *Ceratopteris* type C

Figs. xi-xiv. *Tribulus* type

Plate 17 (S35)

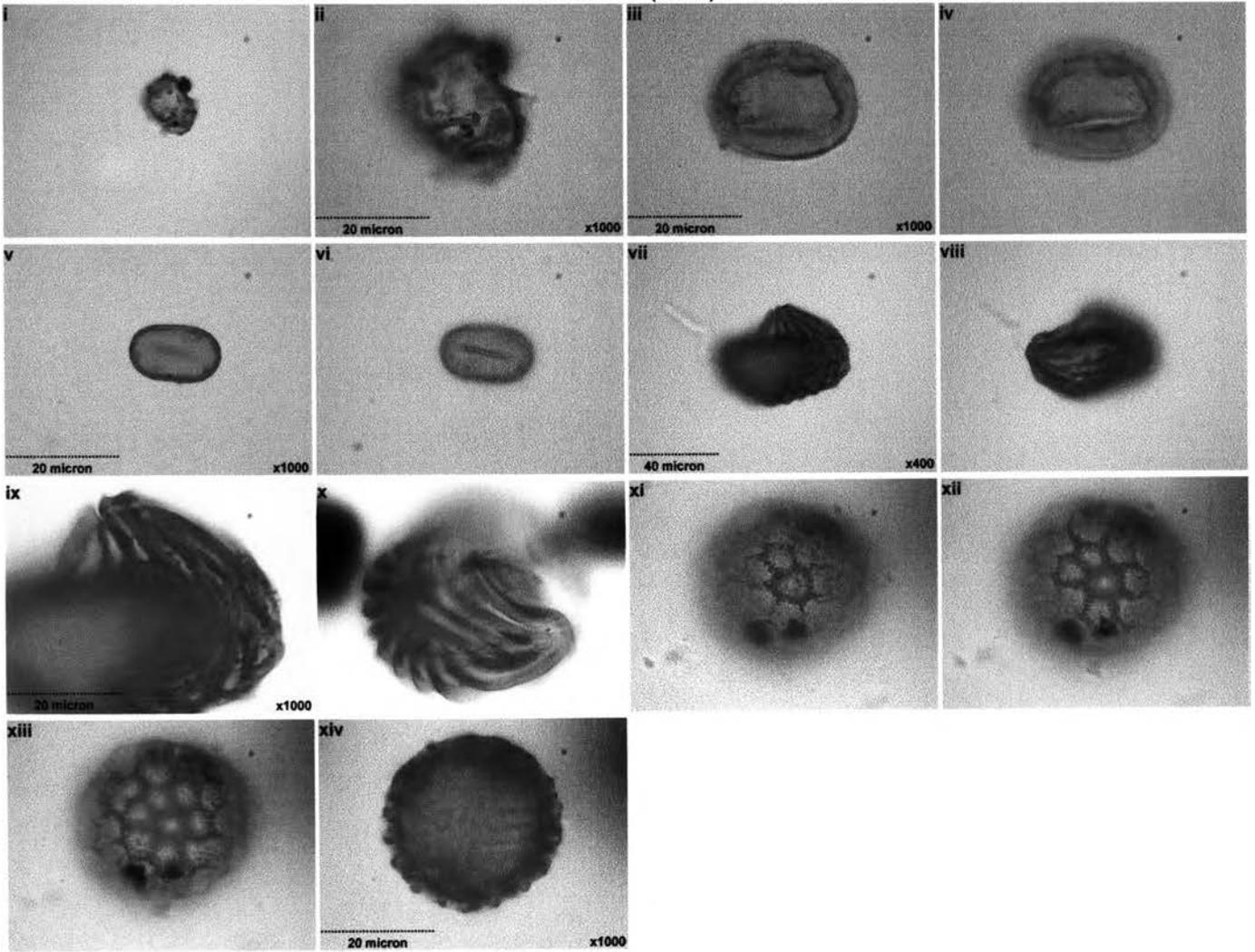


Plate 18 (S36)

Figs. i-iii. Cyperaceae type A

Figs. iv-vi. *Foveodiporites* type

Plate 18 (S36)

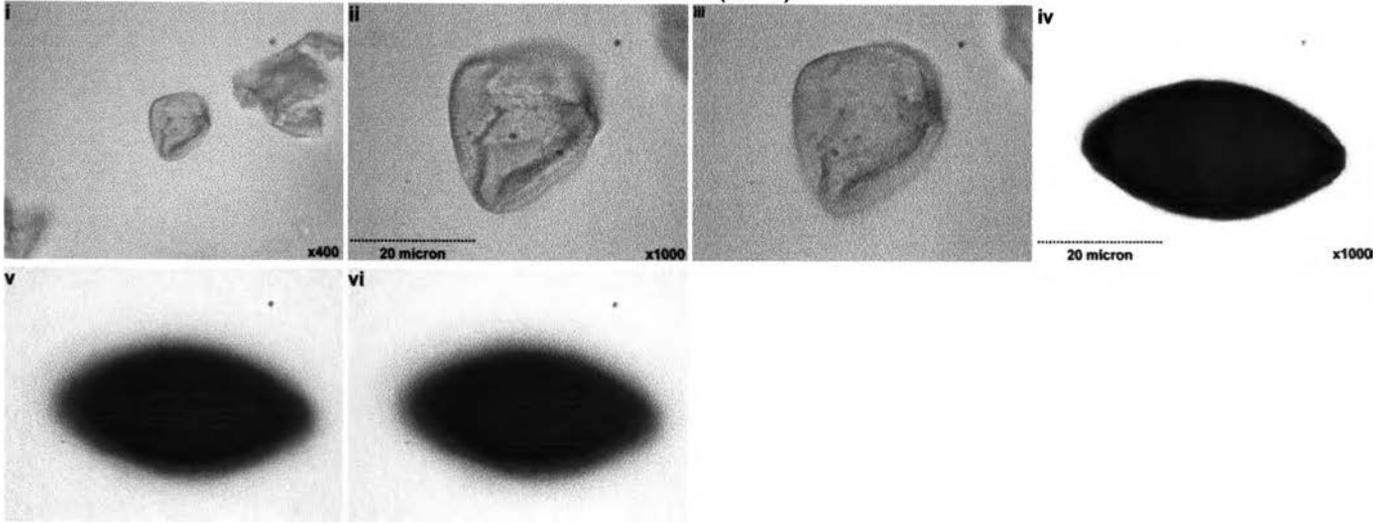


Plate 19 (S37)

Figs. i-iii. *Ceratopteris* type C

Plate 19 (S37)

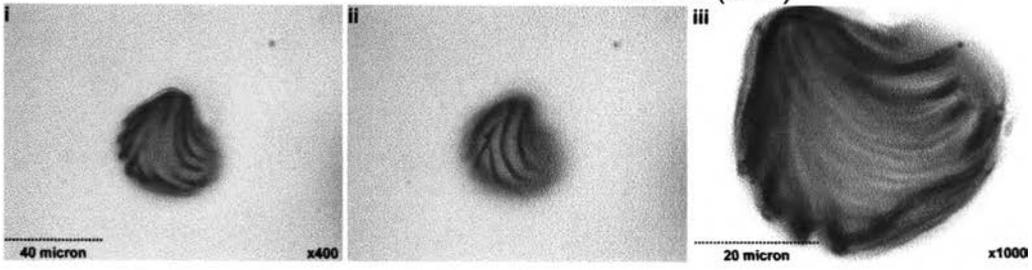


Plate 20 (S38)

Figs. i-ii. *Polypodium* type D

Figs. iii-v. Dicksoniaceae type A

Figs. vi-viii. Poaceae type C

Figs. xii-xiii. Mimosoideae type B

Plate 20 (S38)

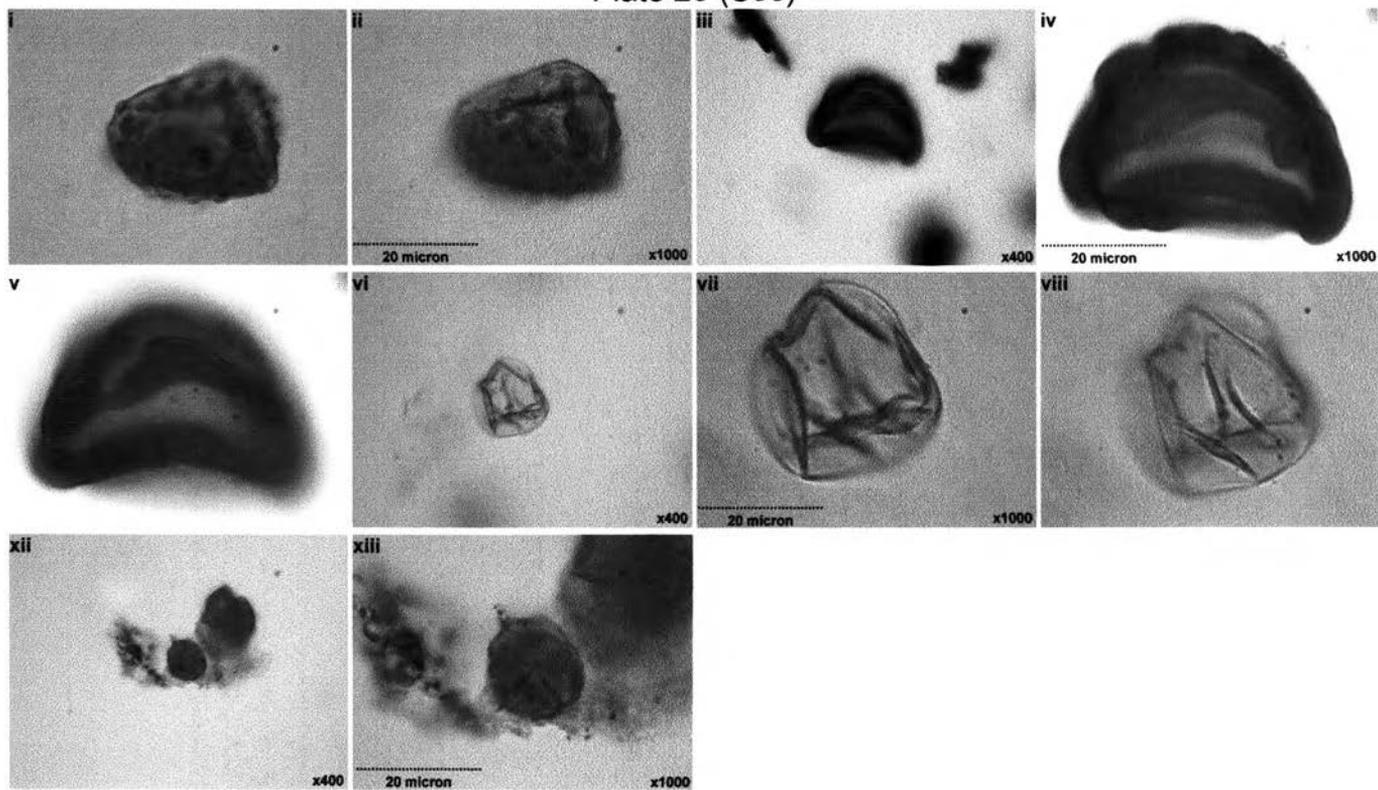
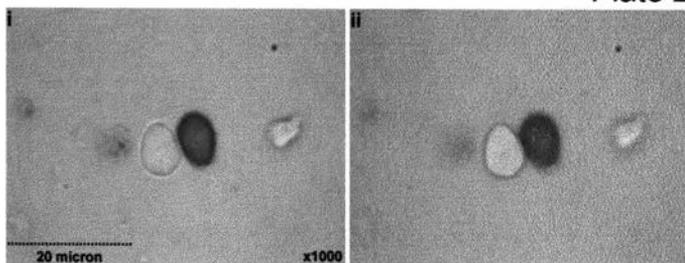


Plate 21 (S42)

Figs. i-ii. Fungal spore type

Plate 21 (S42)



BIOGRAPHY

Mr. Pasakorn Bunchalee was born on 18 February 1975, in Nong Khai Province. He has got Bachelor Degree from the Department of Biology, Faculty of Science, Mahasarakham University. After that he carried out further studies to Master Degree at the Department of Biology, Faculty of Science, Khon Kaen University and Master program in Earth Science, Department of Geology, Faculty of Science, Chulalongkorn University in 2002. Now he is a lecturer at the Department of Biology, Faculty of Science, Mahasarakham University.

