

SKML overview of EQAS

Morphology External Quality Assessment Scheme

- Part 1: blood parasites
- Part 2: faecal and tissue parasites
- Last slide: names and details of parasites

(C) SKML section parasitology

For training and education purpose only

Please acknowledge:



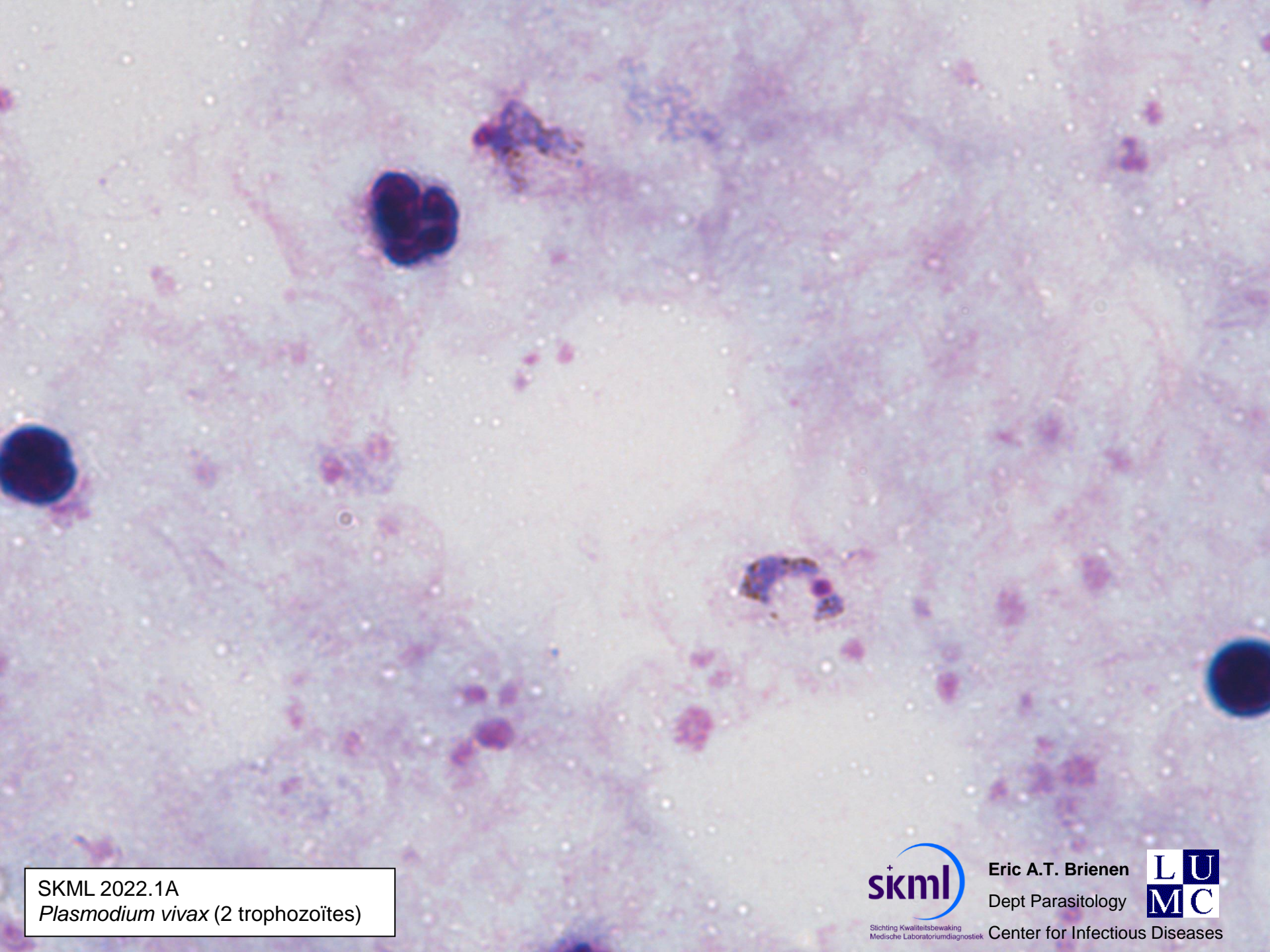
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NB: a separate file is provided without the name of the parasite depicted on each slide



SKML 2022.1A
Plasmodium vivax (2 trophozoïtes)



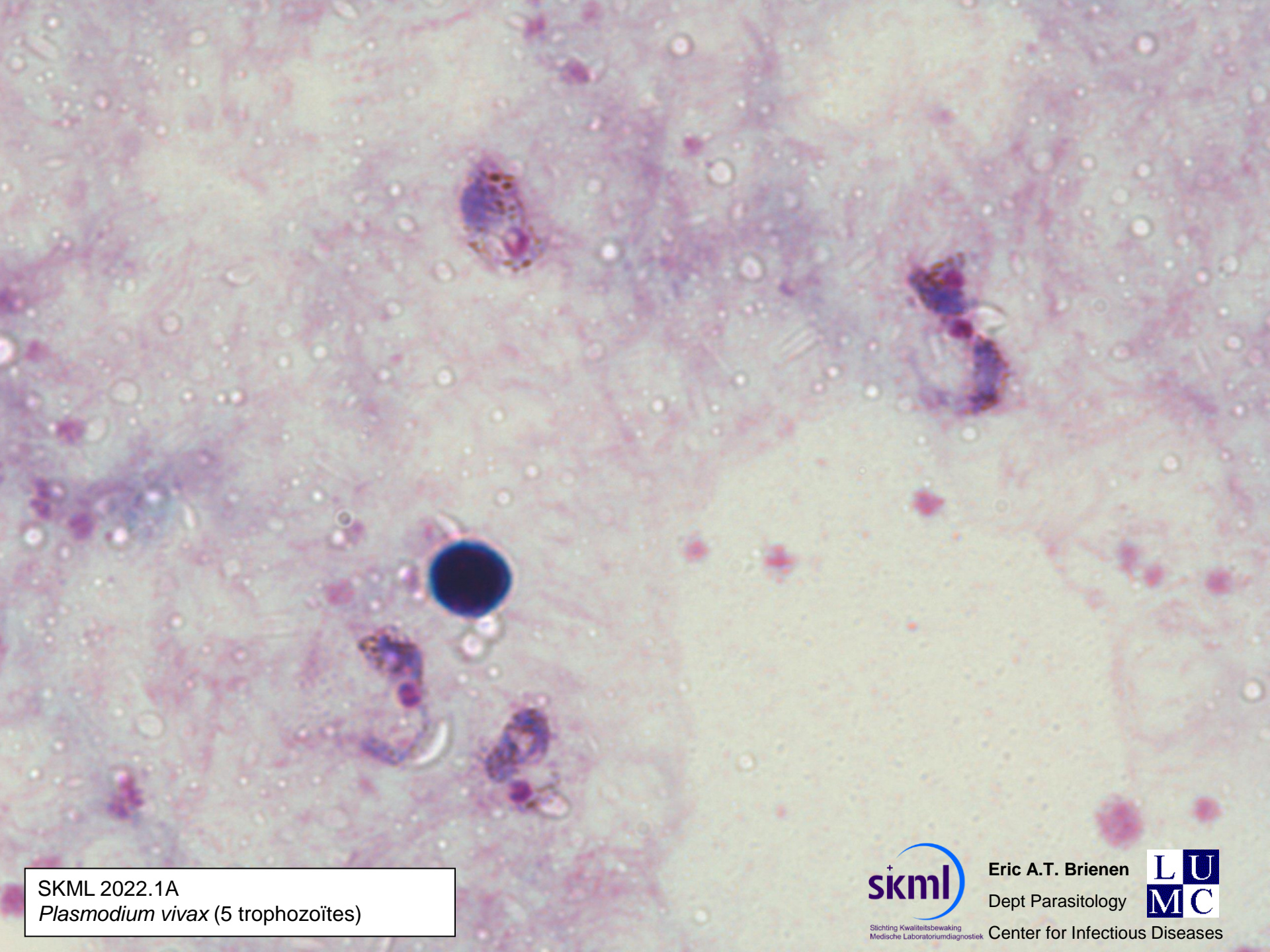
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SKML 2022.1A
Plasmodium vivax (5 trophozoïtes)

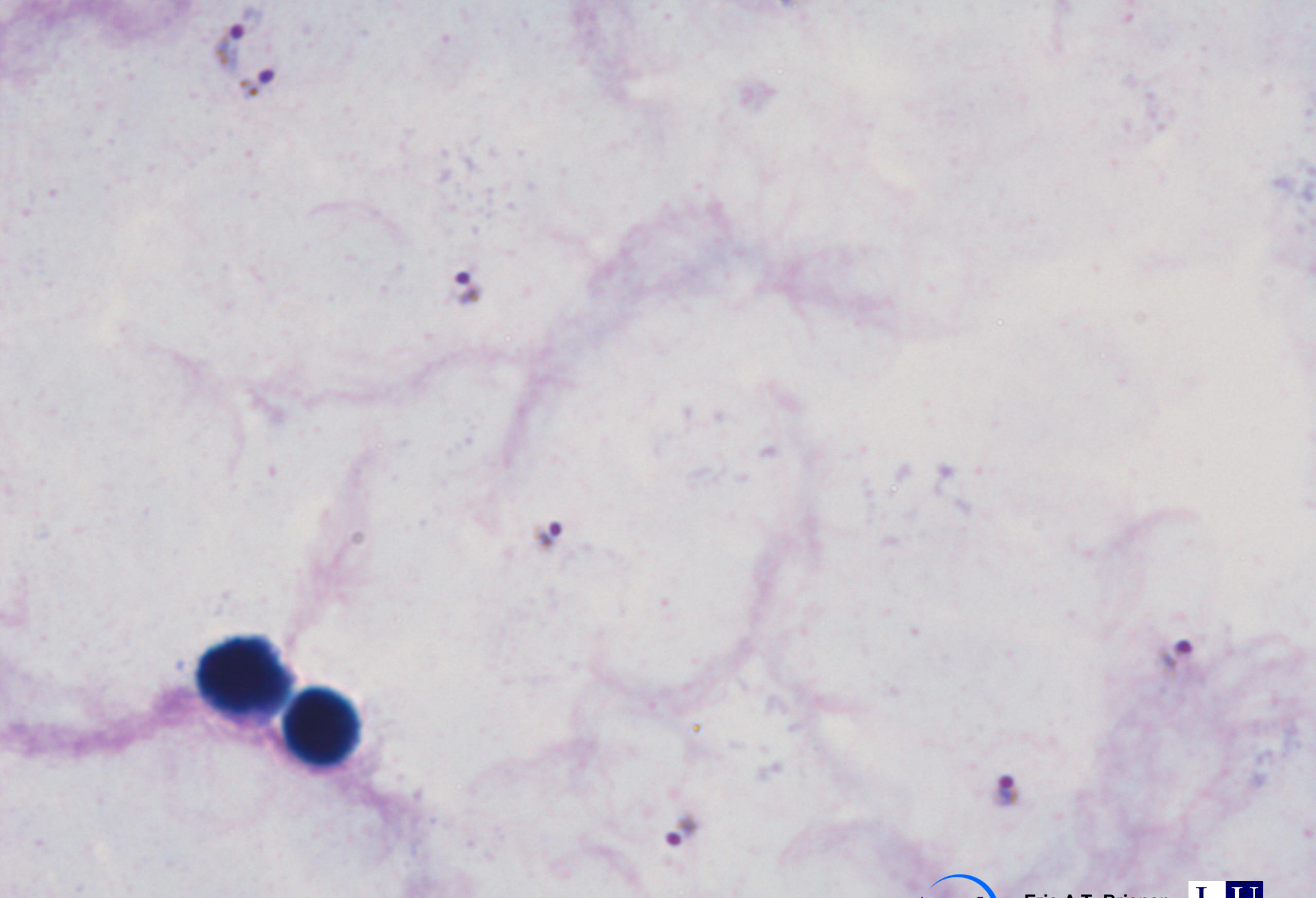


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SKML 2022.1B

Plasmodium falciparum \approx 1.5 % (7 trophozoïtes)



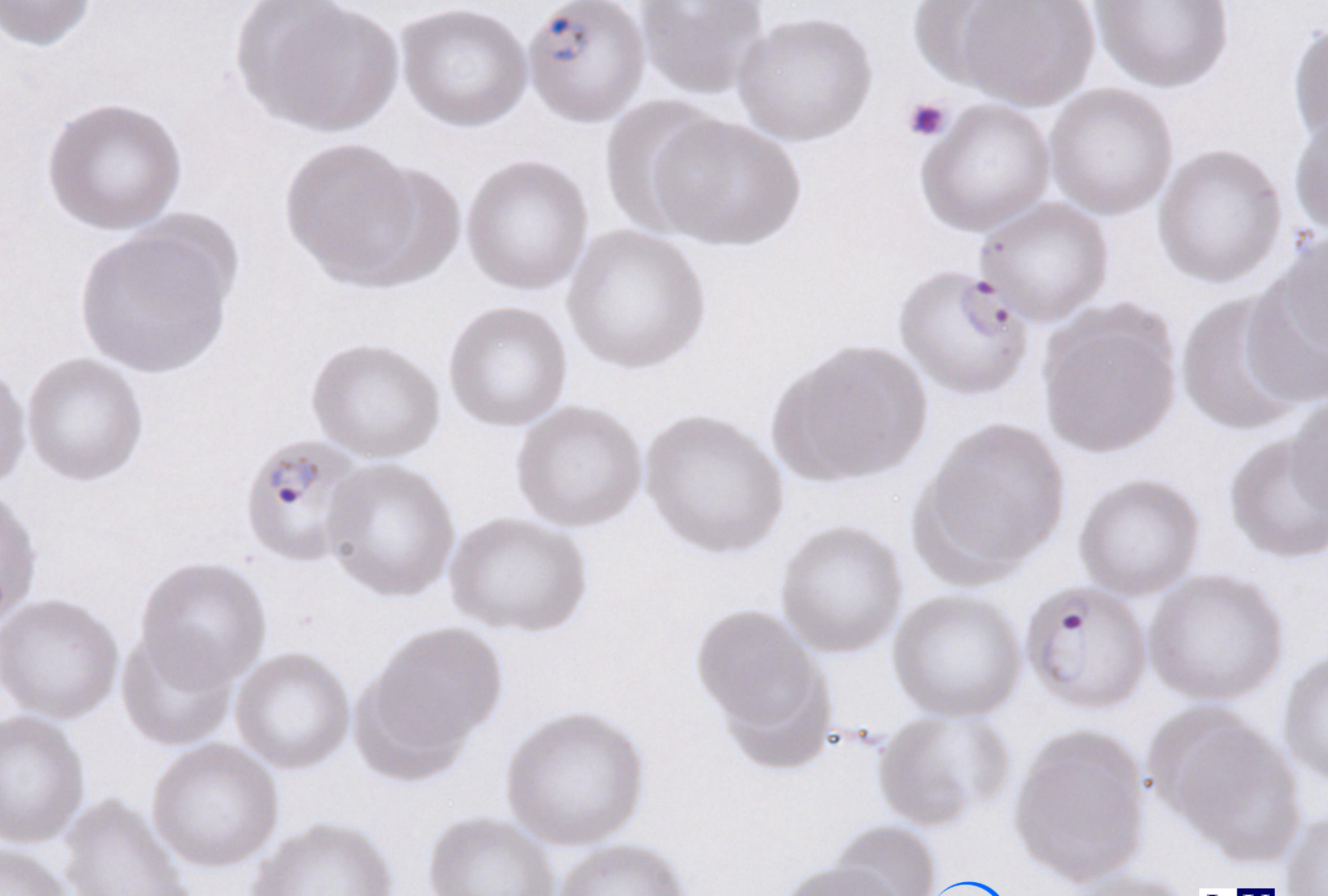
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SKML 2022.1B

Plasmodium falciparum \approx 1.5 % (4 trophozoïtes)



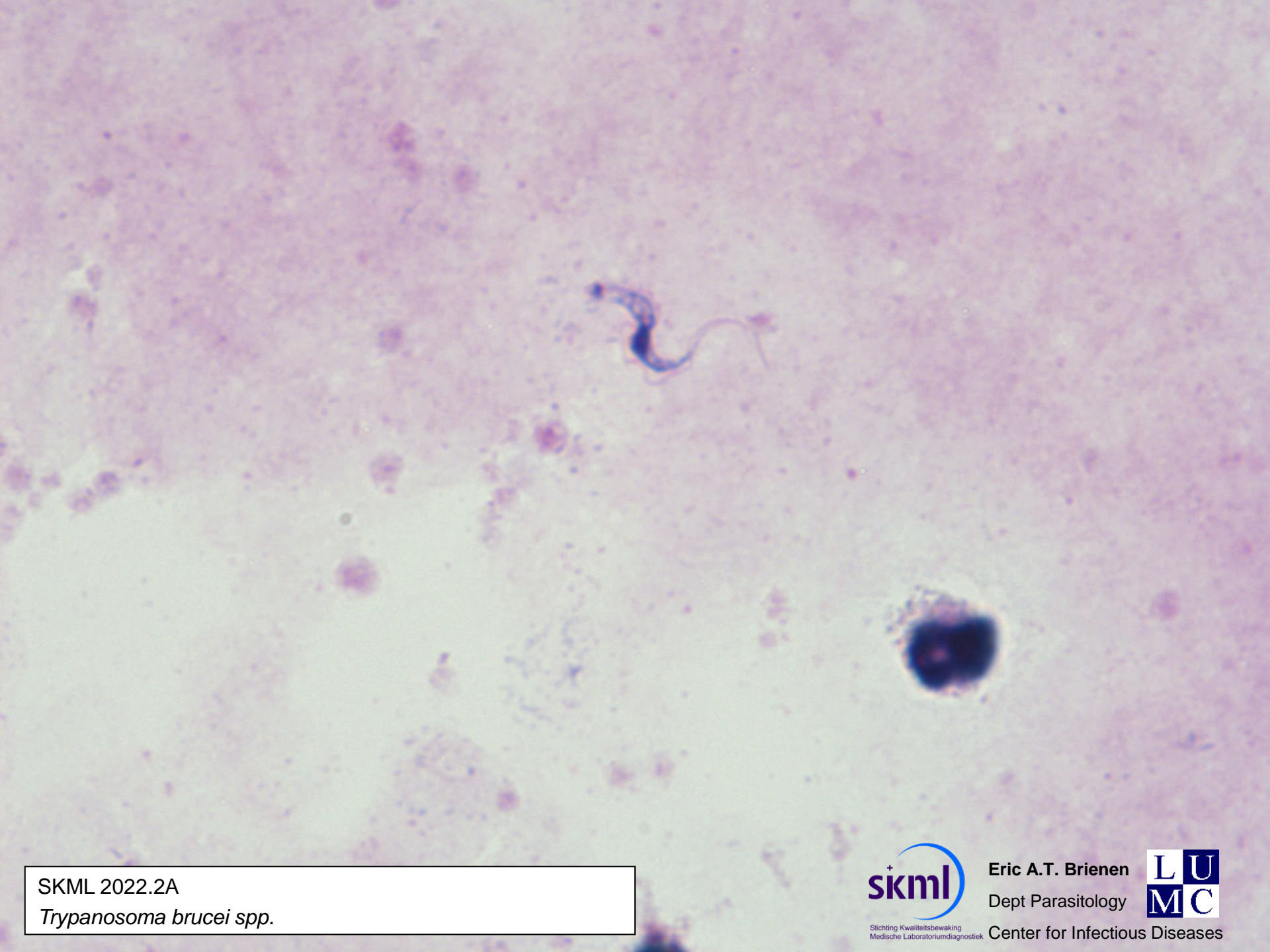
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SKML 2022.2A

Trypanosoma brucei spp.



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SKML 2022.2B

Plasmodium falciparum \approx 1.4 % (trophozoïte)



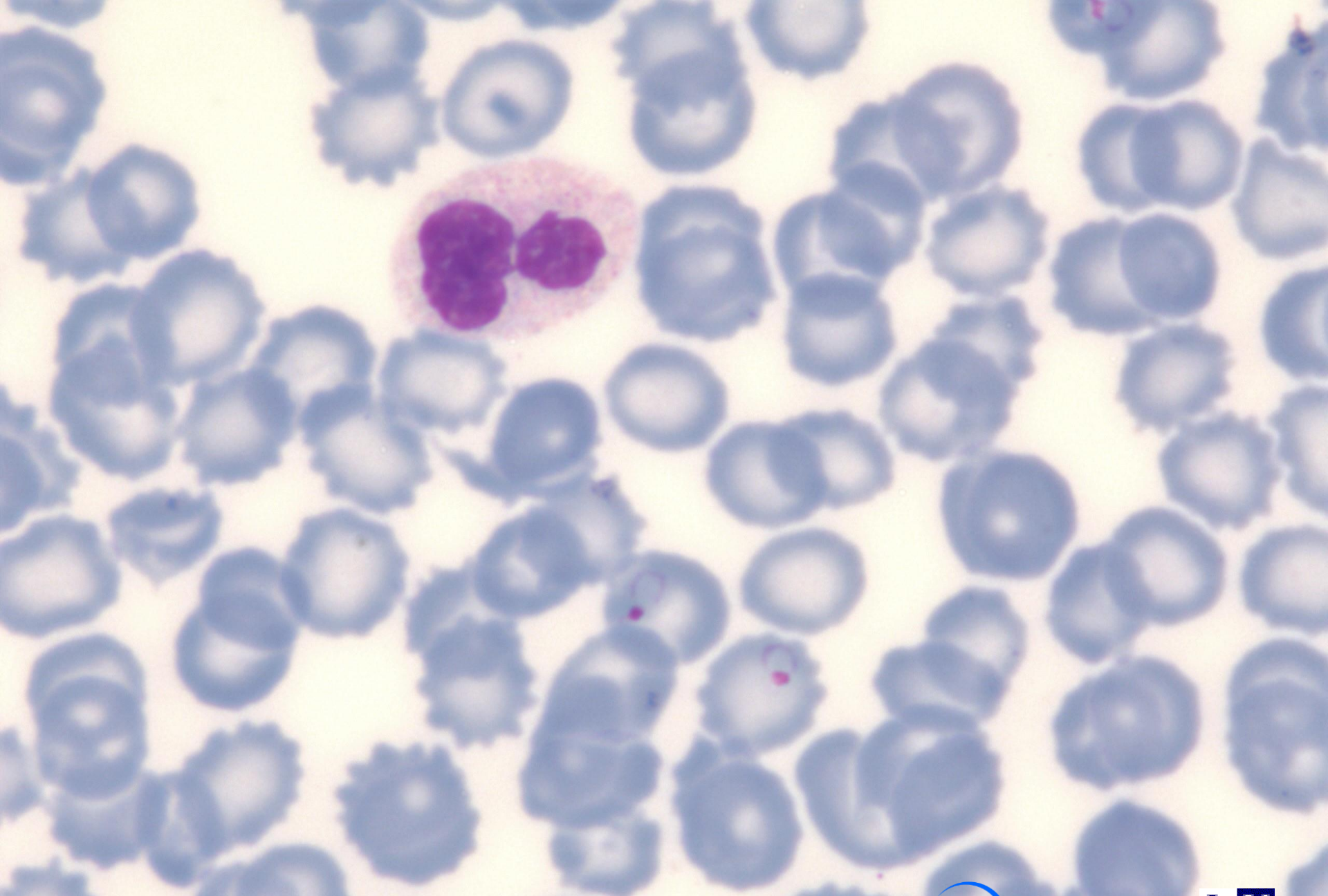
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SKML 2022.2B

Plasmodium falciparum \approx 1.4 % (2 trophozoïtes)



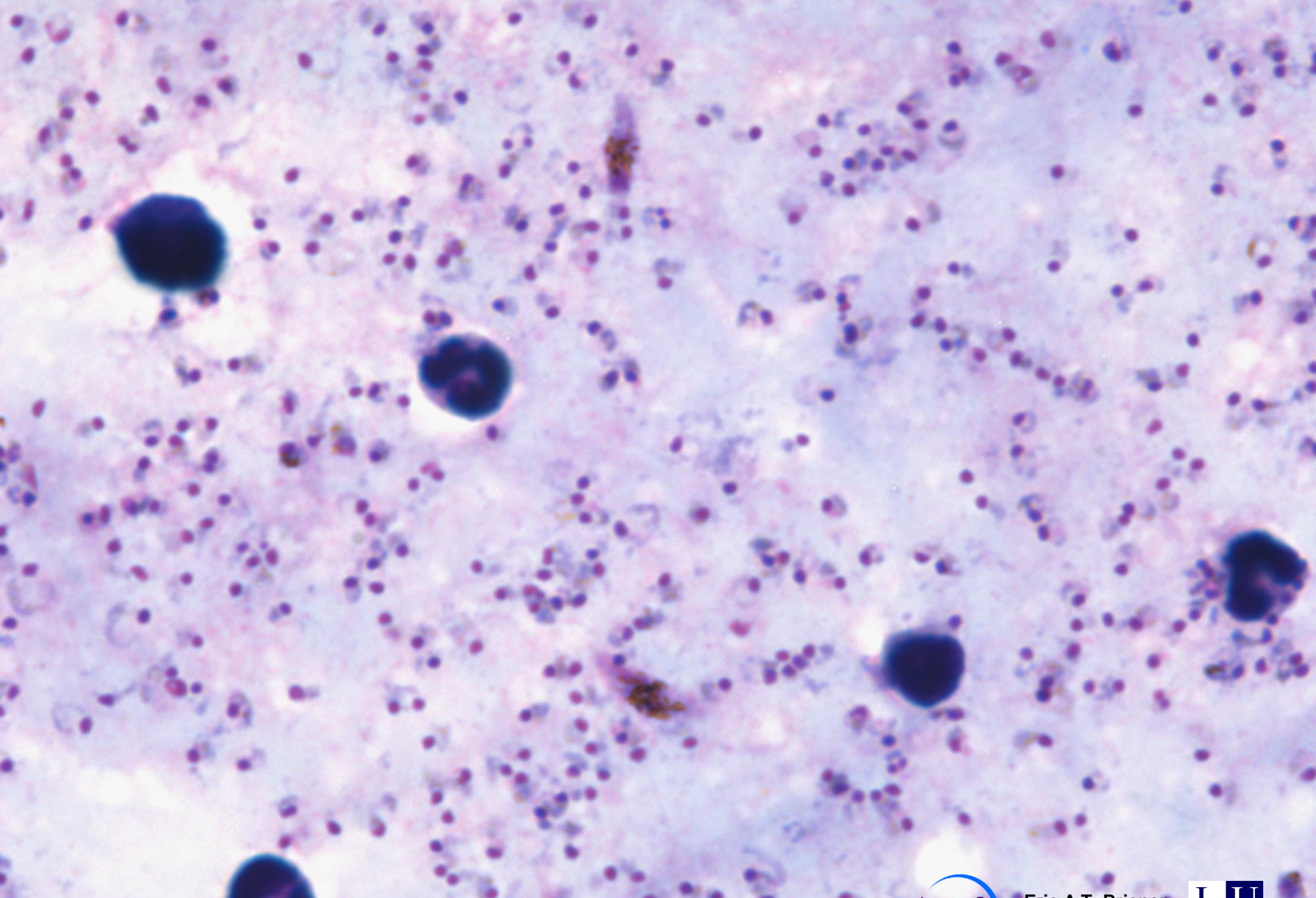
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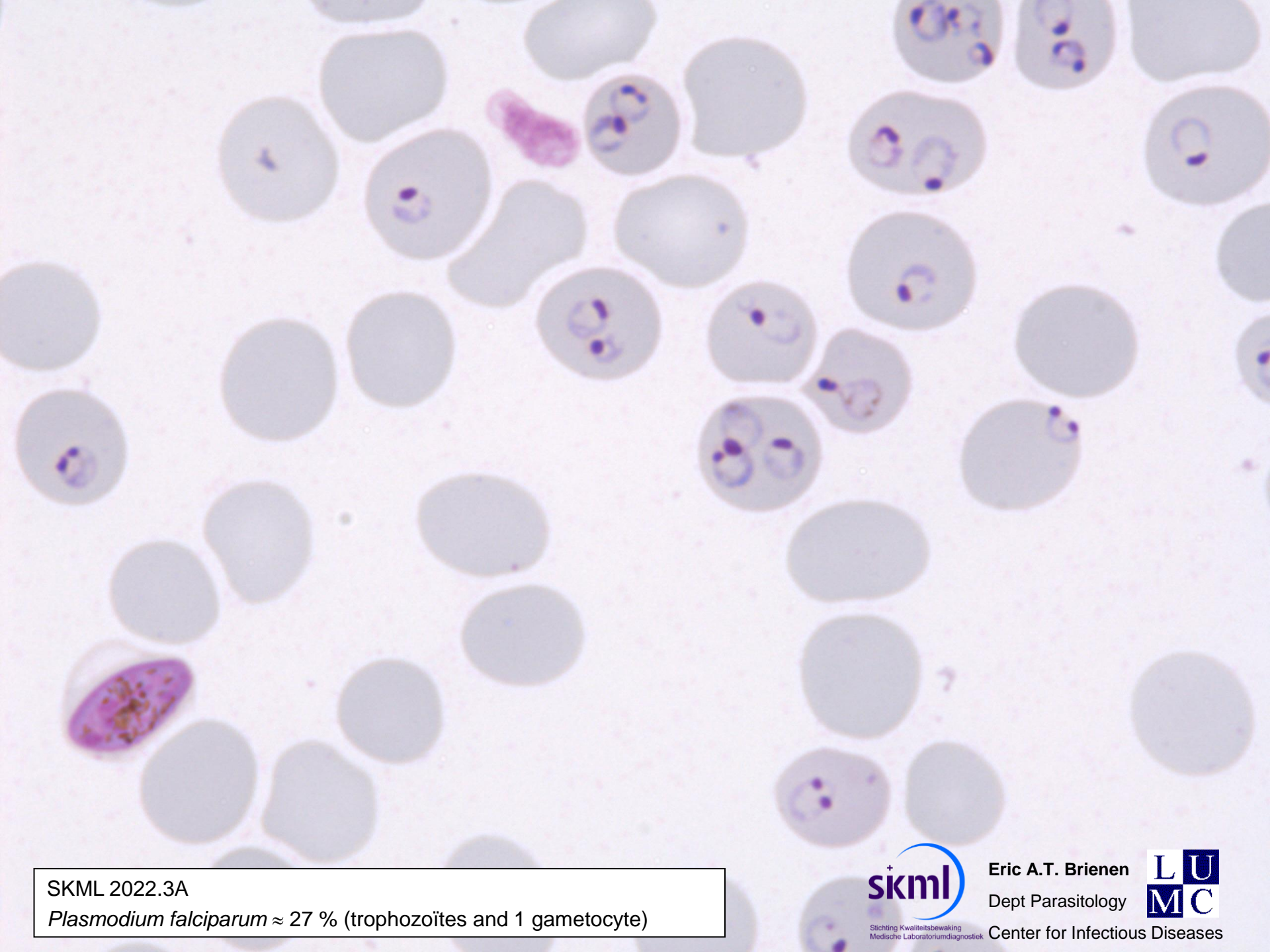


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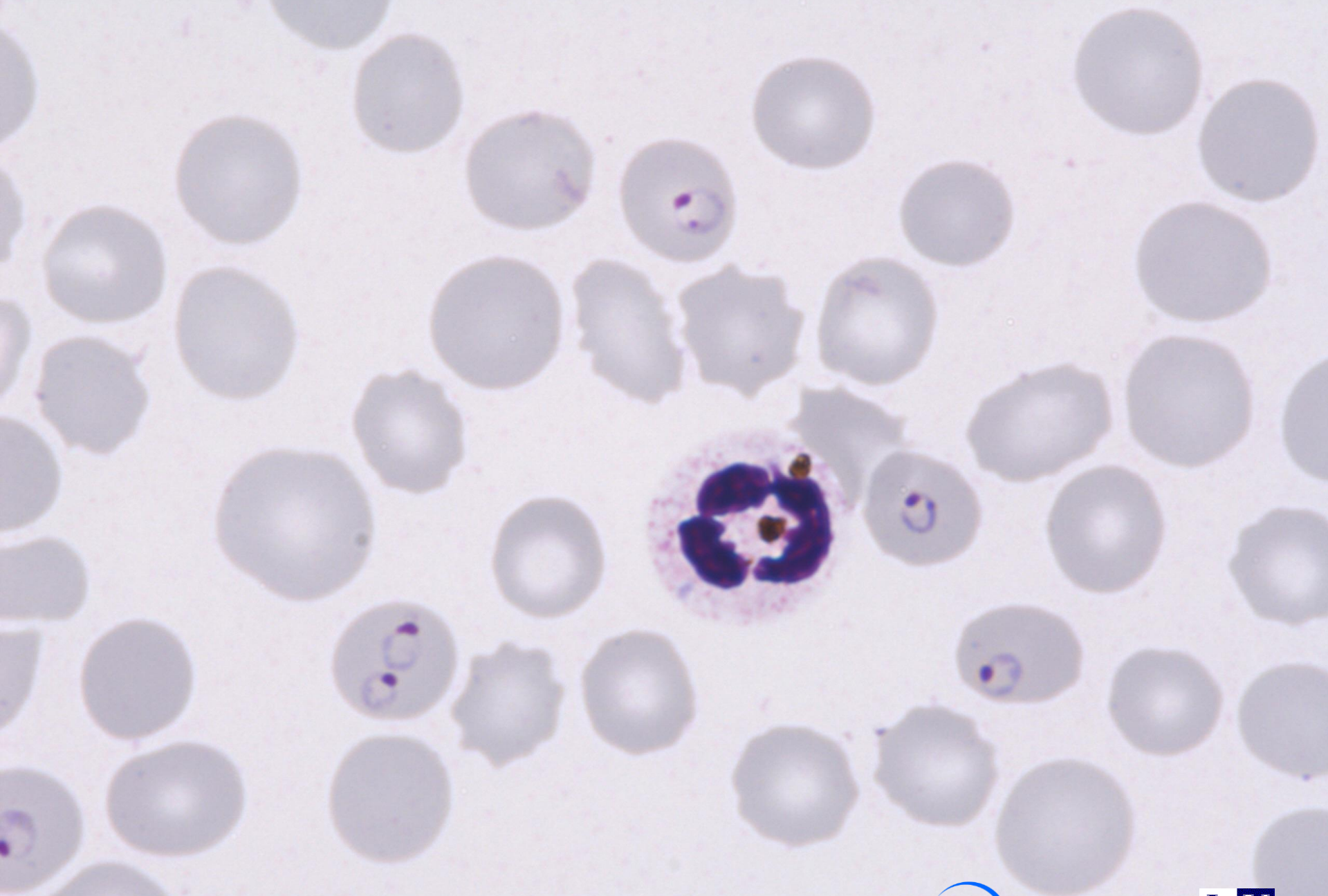
SKML 2022.3A

Plasmodium falciparum \approx 27 % (many trophozoïtes and 2 gametocytes)



SKML 2022.3A

Plasmodium falciparum \approx 27 % (trophozoïtes and 1 gametocyte)



SKML 2022.3A

Plasmodium falciparum \approx 27 % (trophozoïtes and pigment in leucocyte)



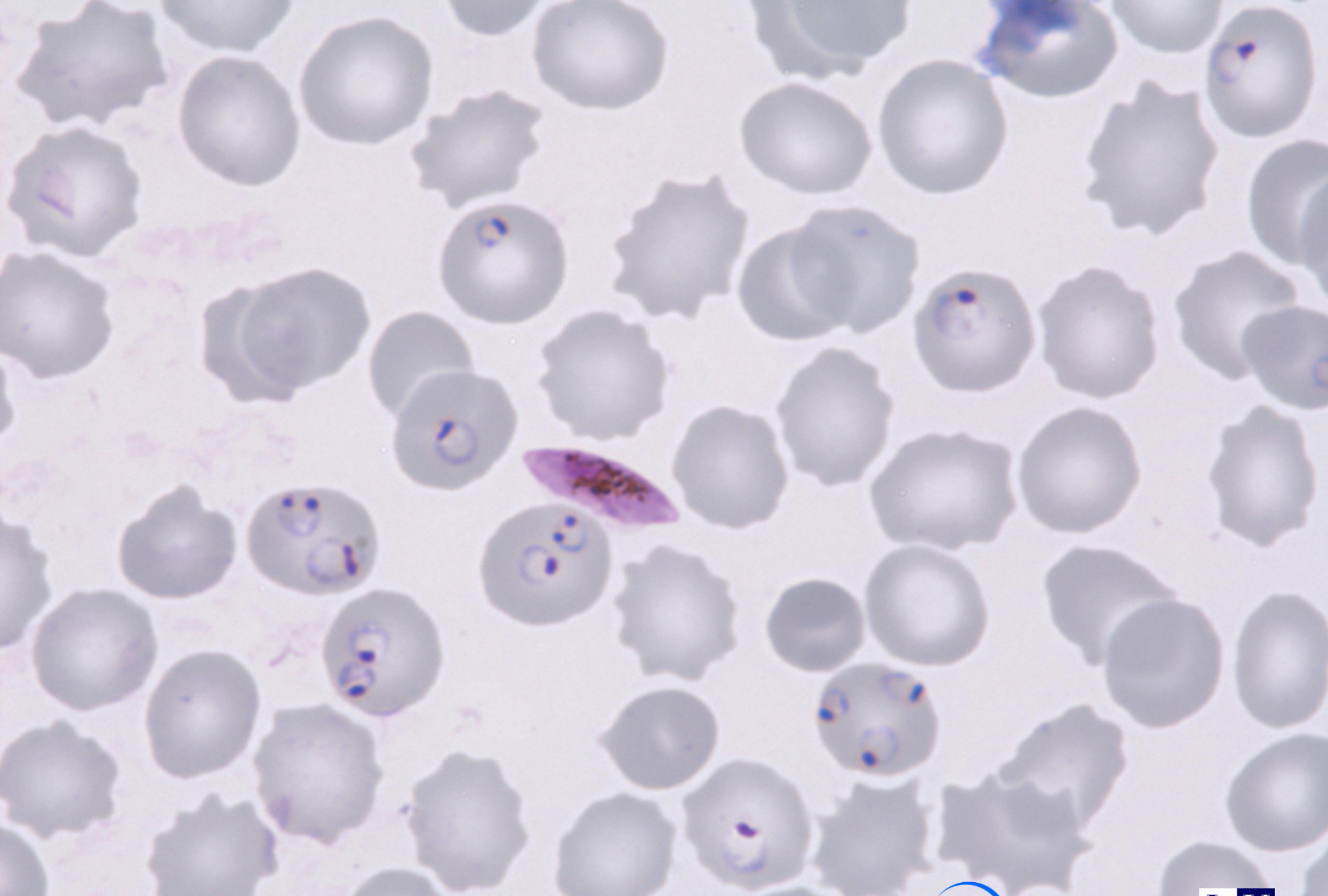
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SKML 2022.3A

Plasmodium falciparum \approx 27 % (trophozoïtes and 1 young gametocyte)



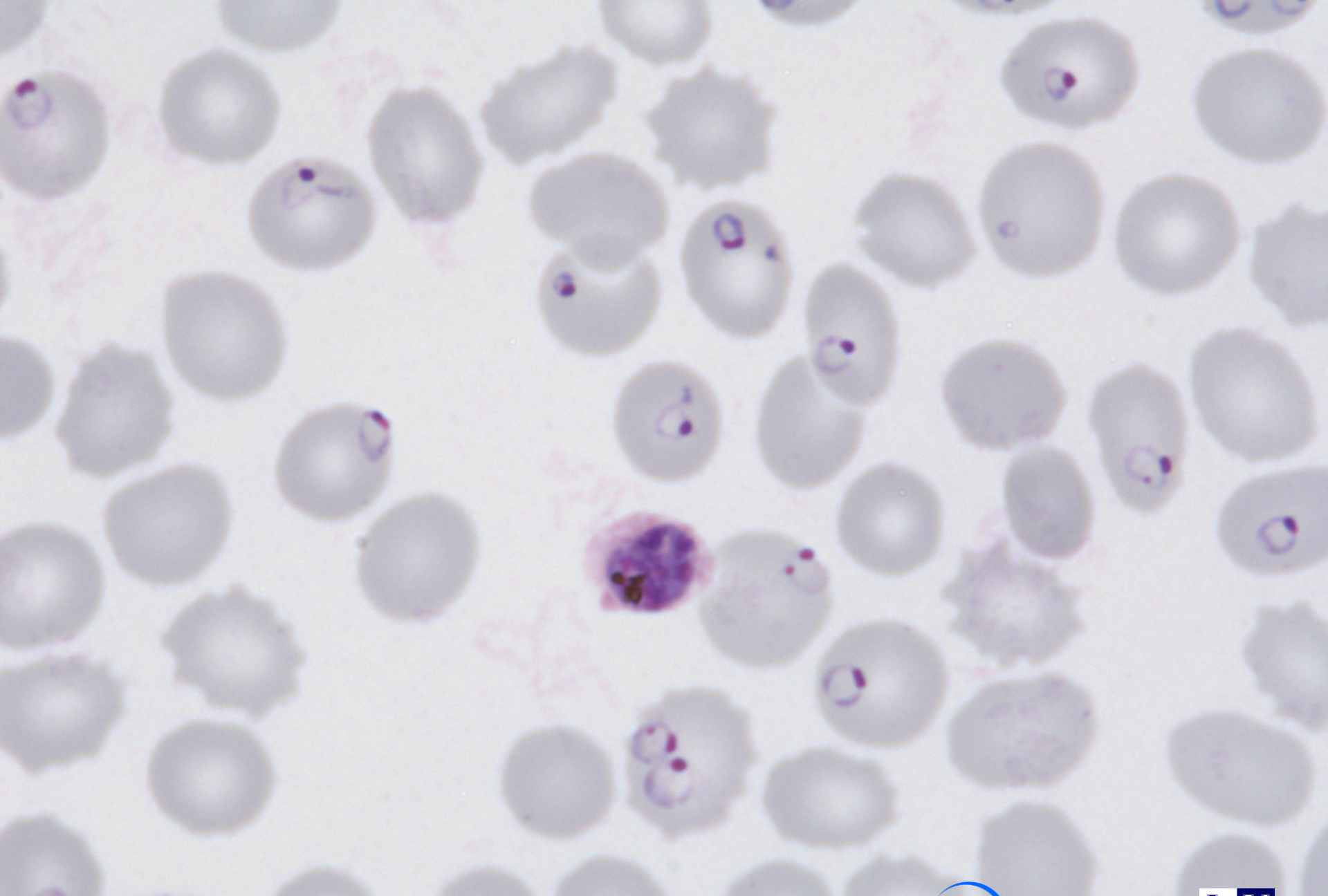
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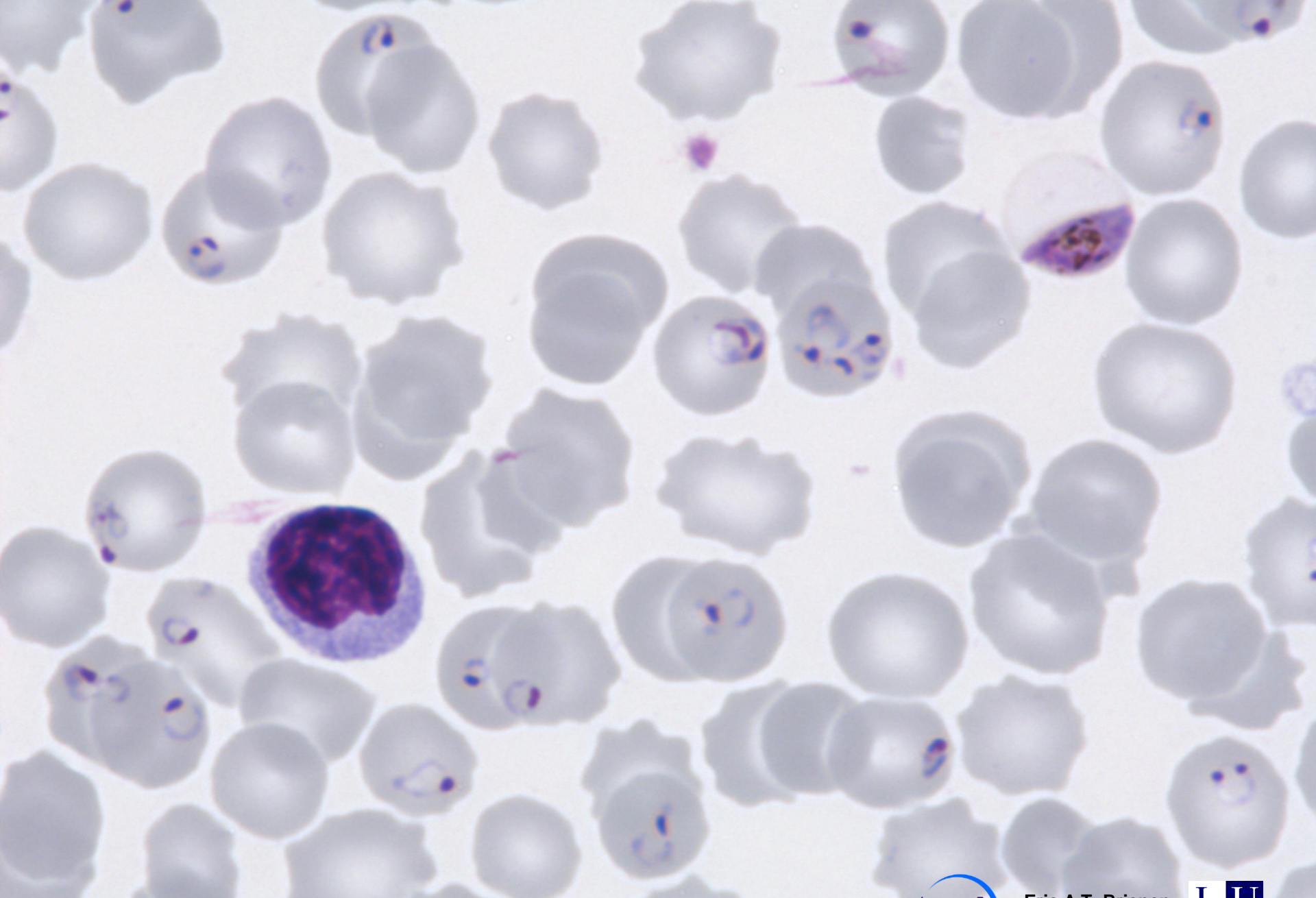


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SKML 2022.3A

Plasmodium falciparum ≈ 27 % (trophozoïtes and 1 schizont)



SKML 2022.3A

Plasmodium falciparum \approx 27 % (trophozoïtes and 1 gametocyte)



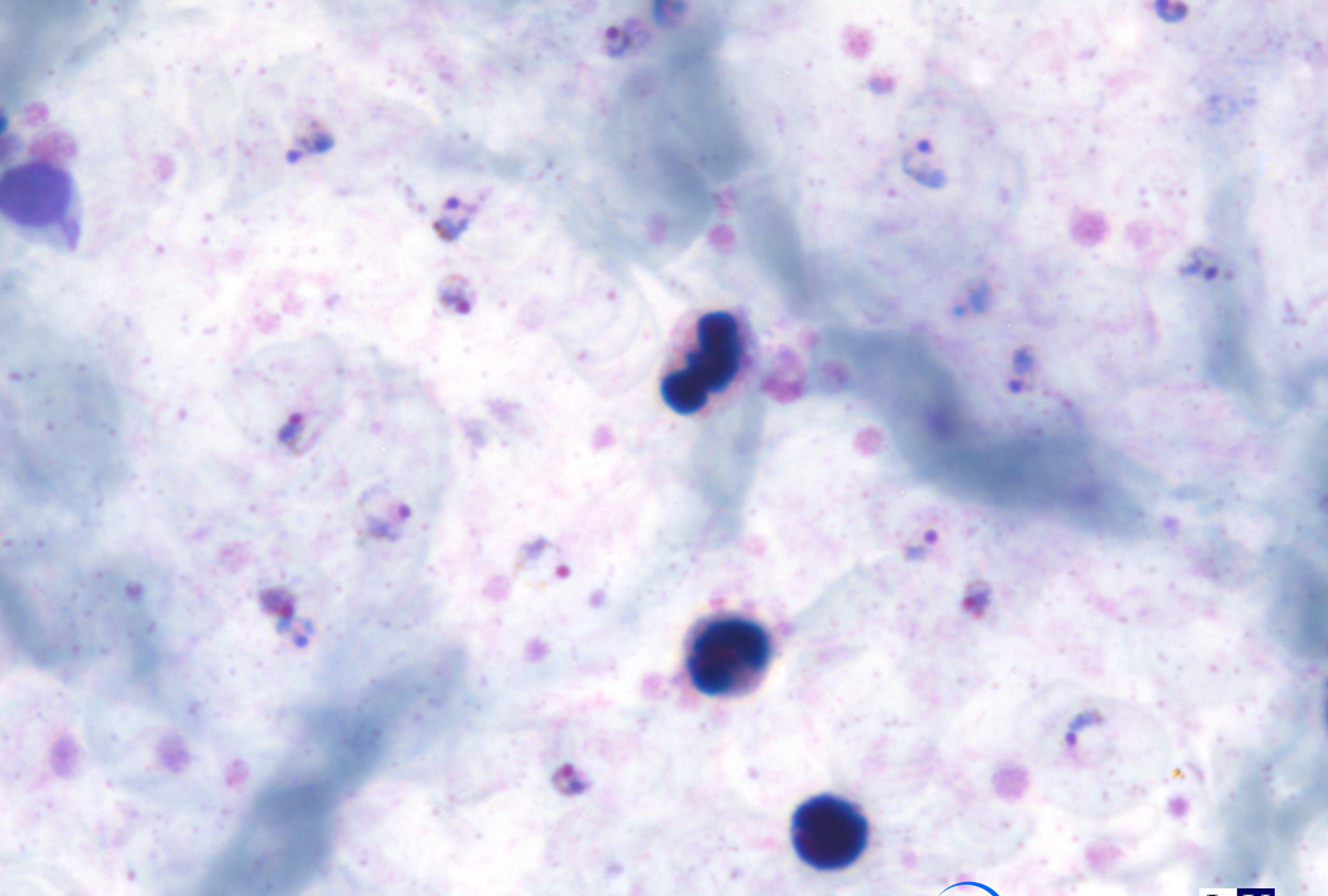
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SKML 2022.3B
Plasmodium falciparum ≈ 1,7 % (trophozoïtes)

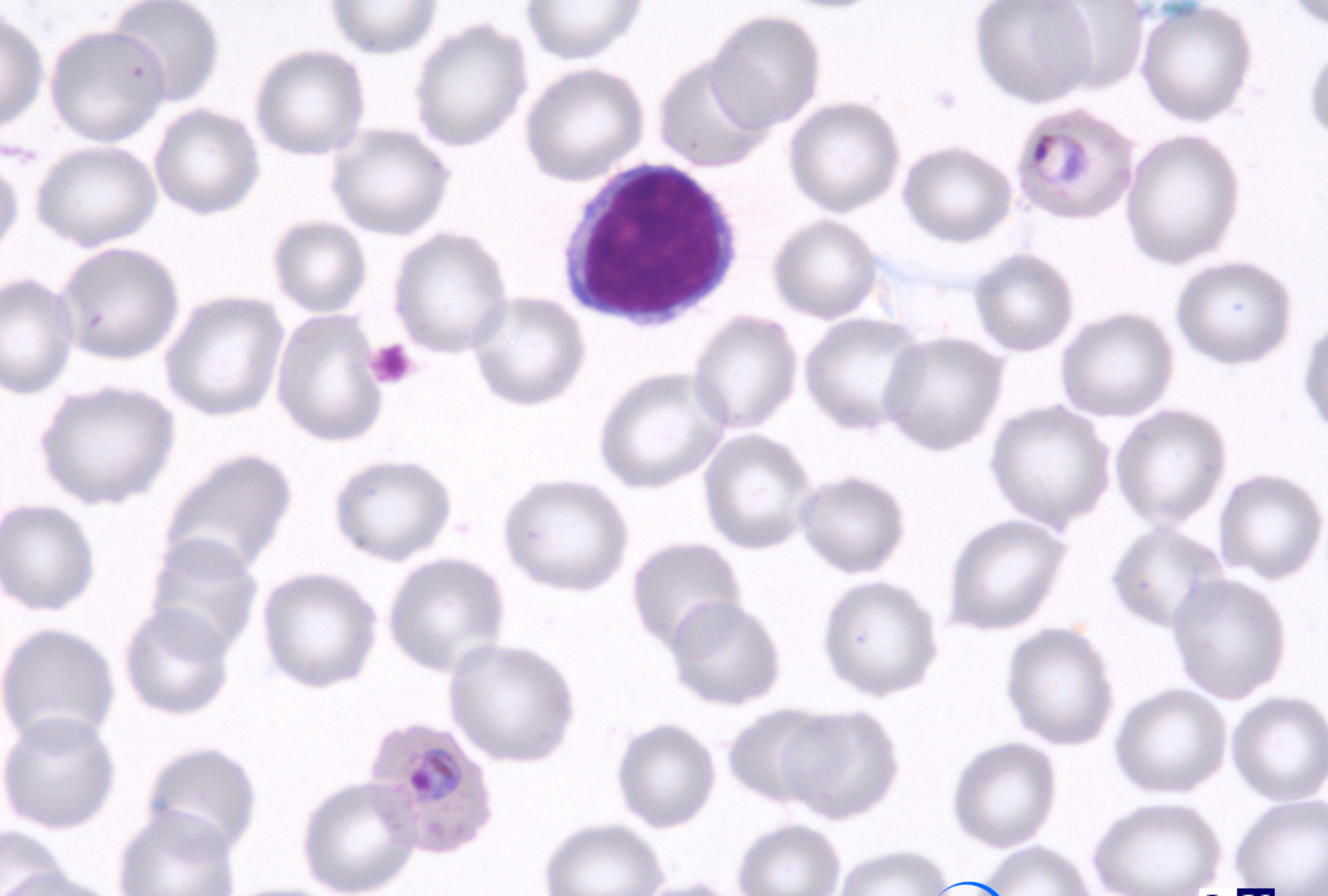


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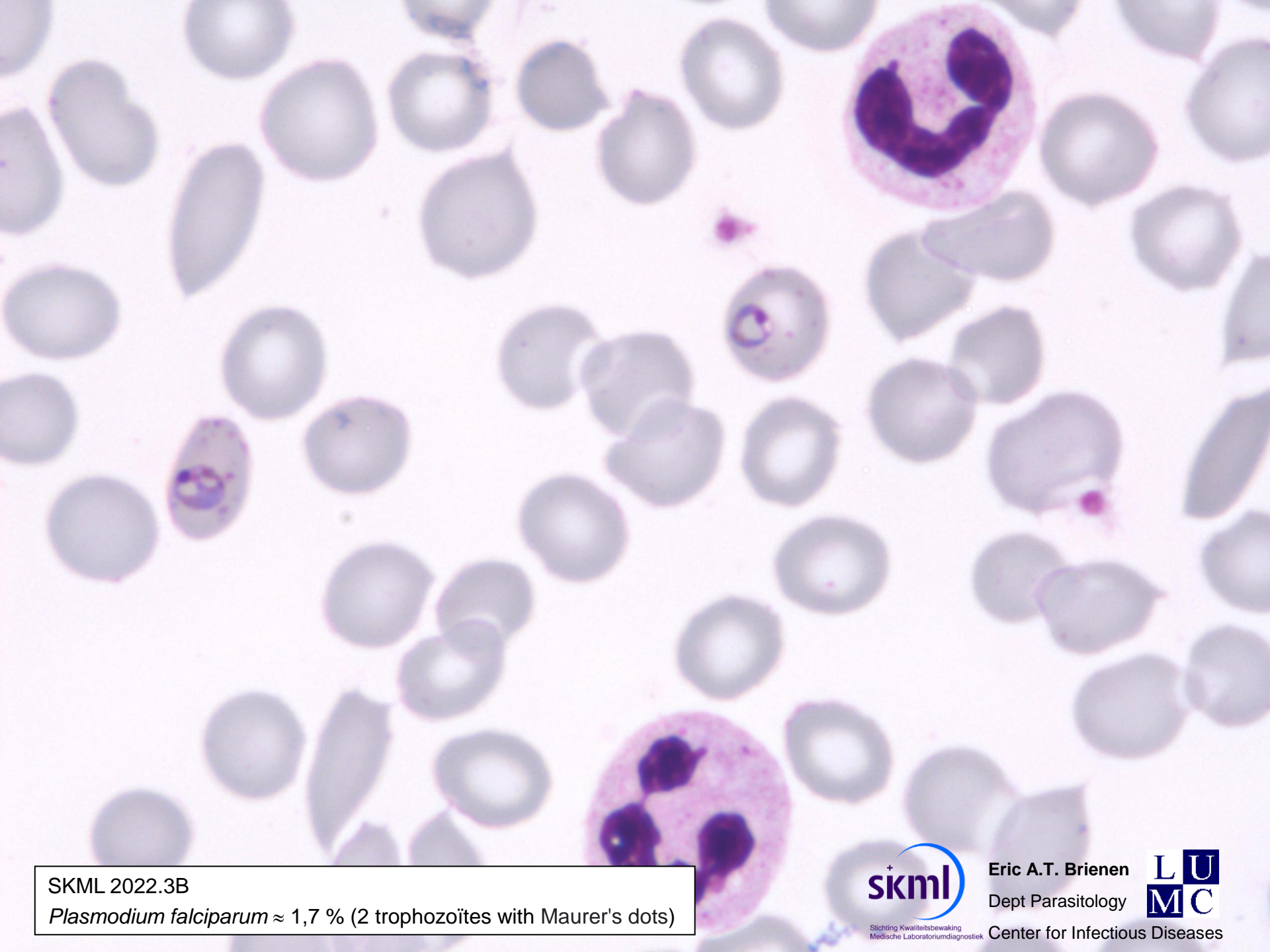
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SKML 2022.3B
Plasmodium falciparum \approx 1,7 % (2 trophozoïtes with Maurer's dots)



SKML 2022.3B

Plasmodium falciparum \approx 1,7 % (2 trophozoïtes with Maurer's dots)



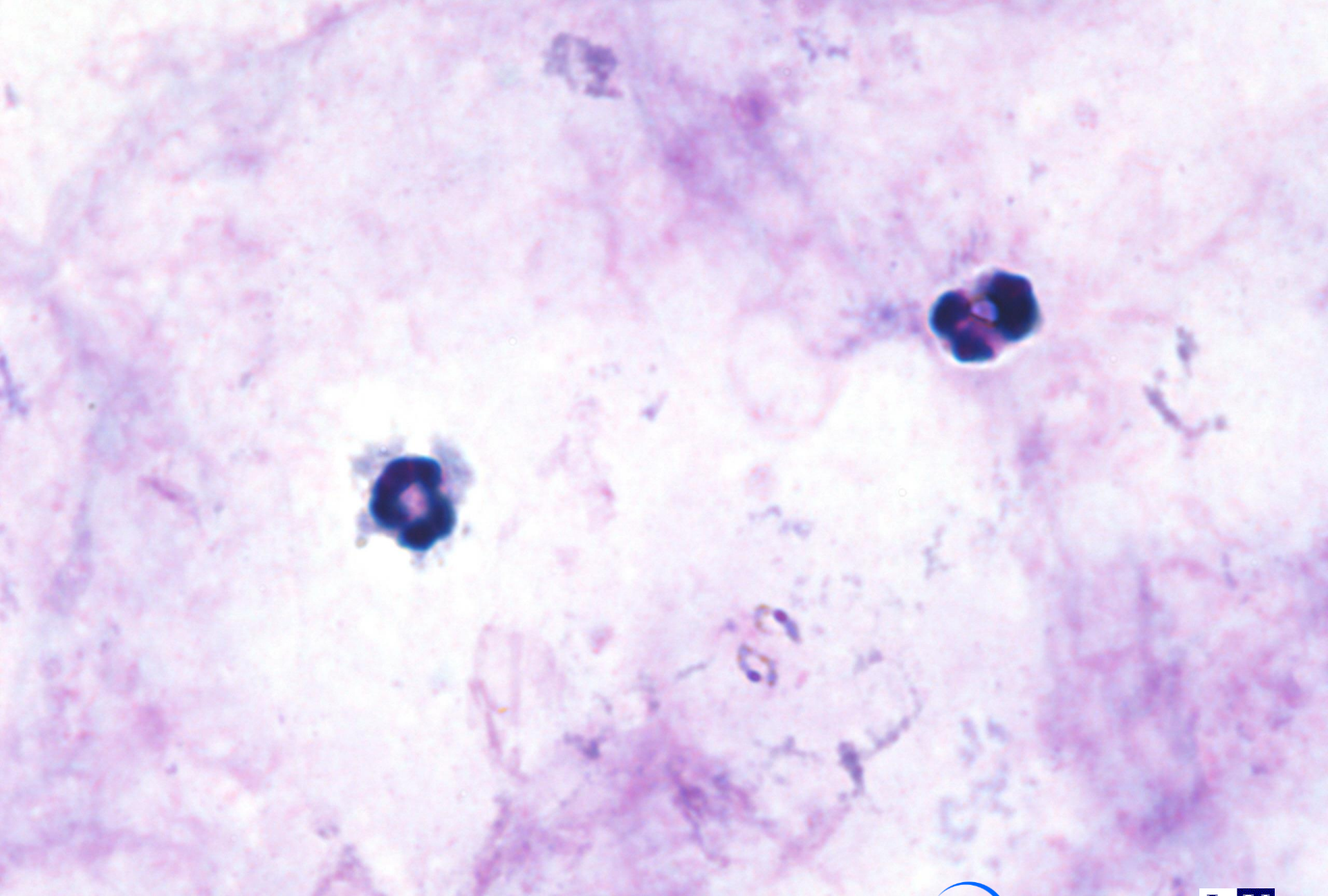
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SKML 2022.4A

Plasmodium falciparum \approx 0.05 % (2 trophozoïtes)



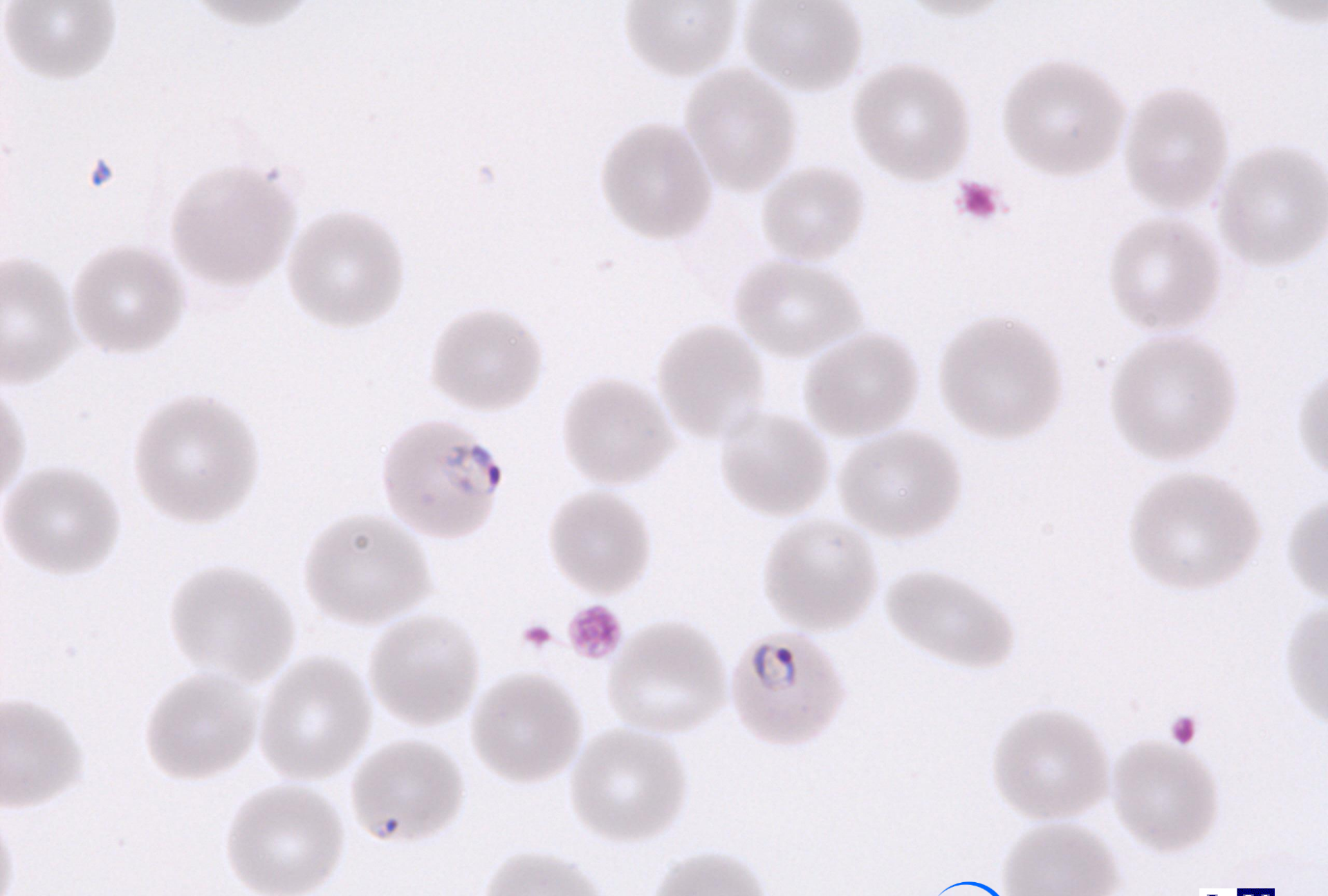
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SKML 2022.4A
Plasmodium falciparum \approx 0.05 % (2 trophozoïtes)

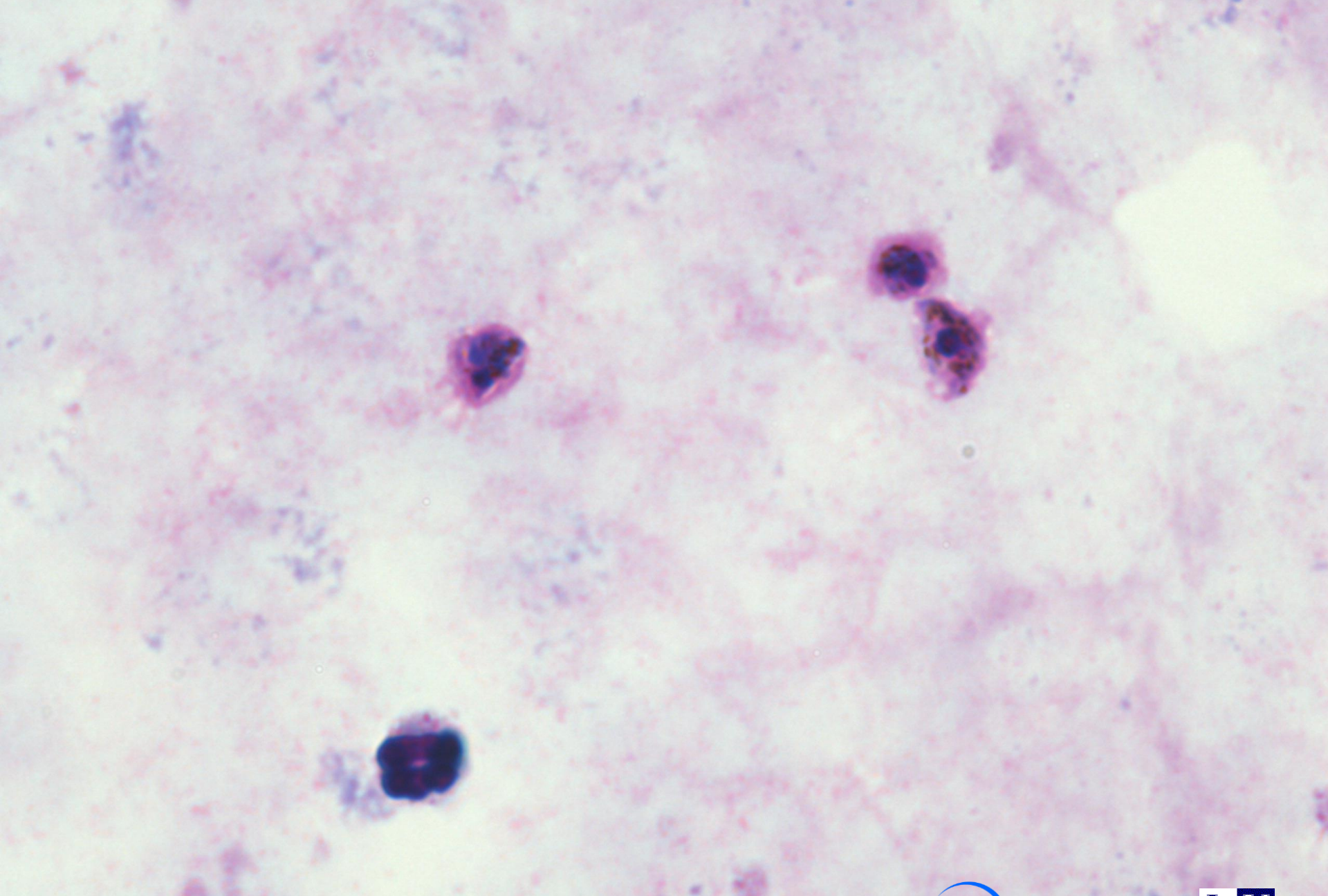


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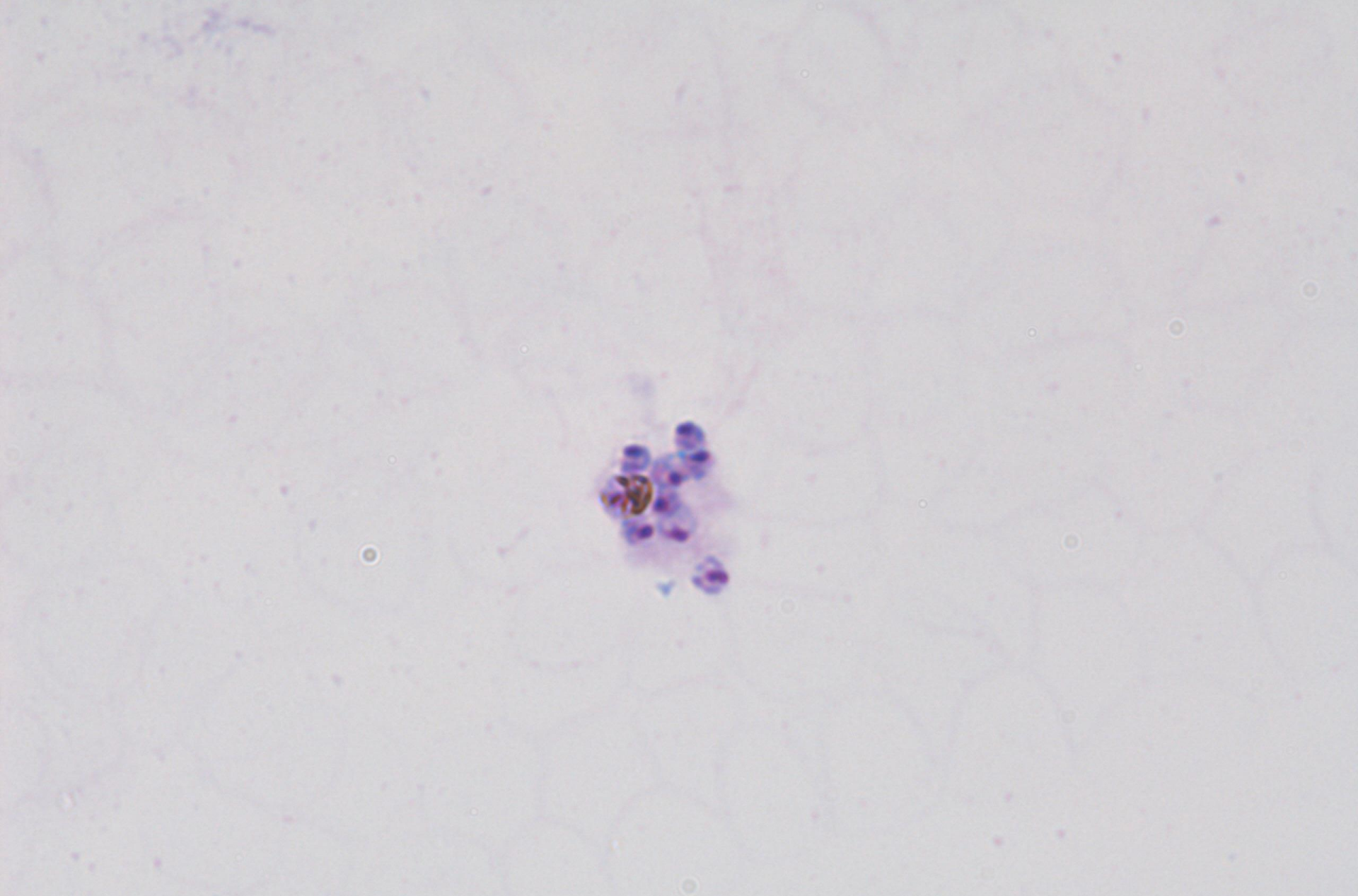
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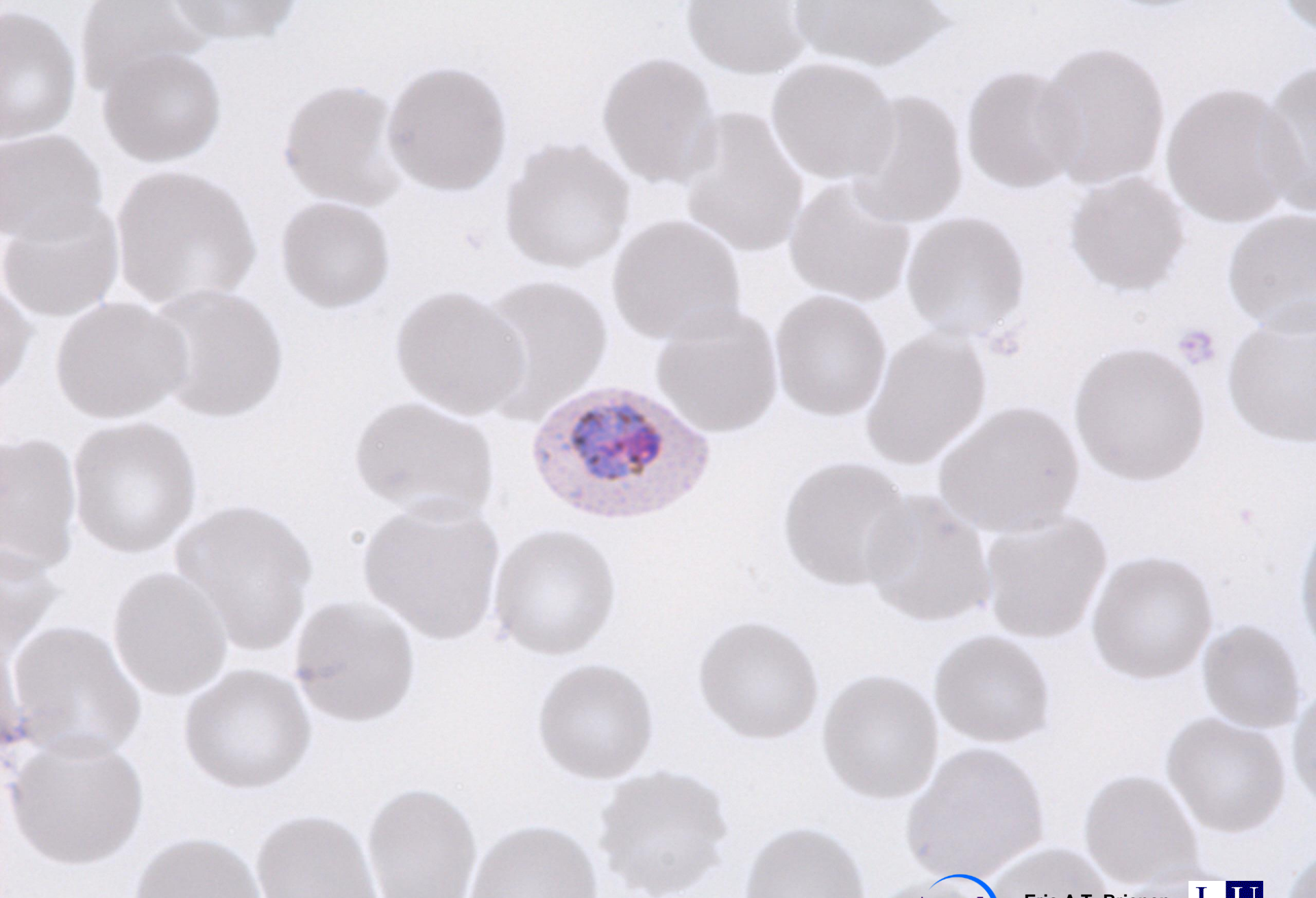
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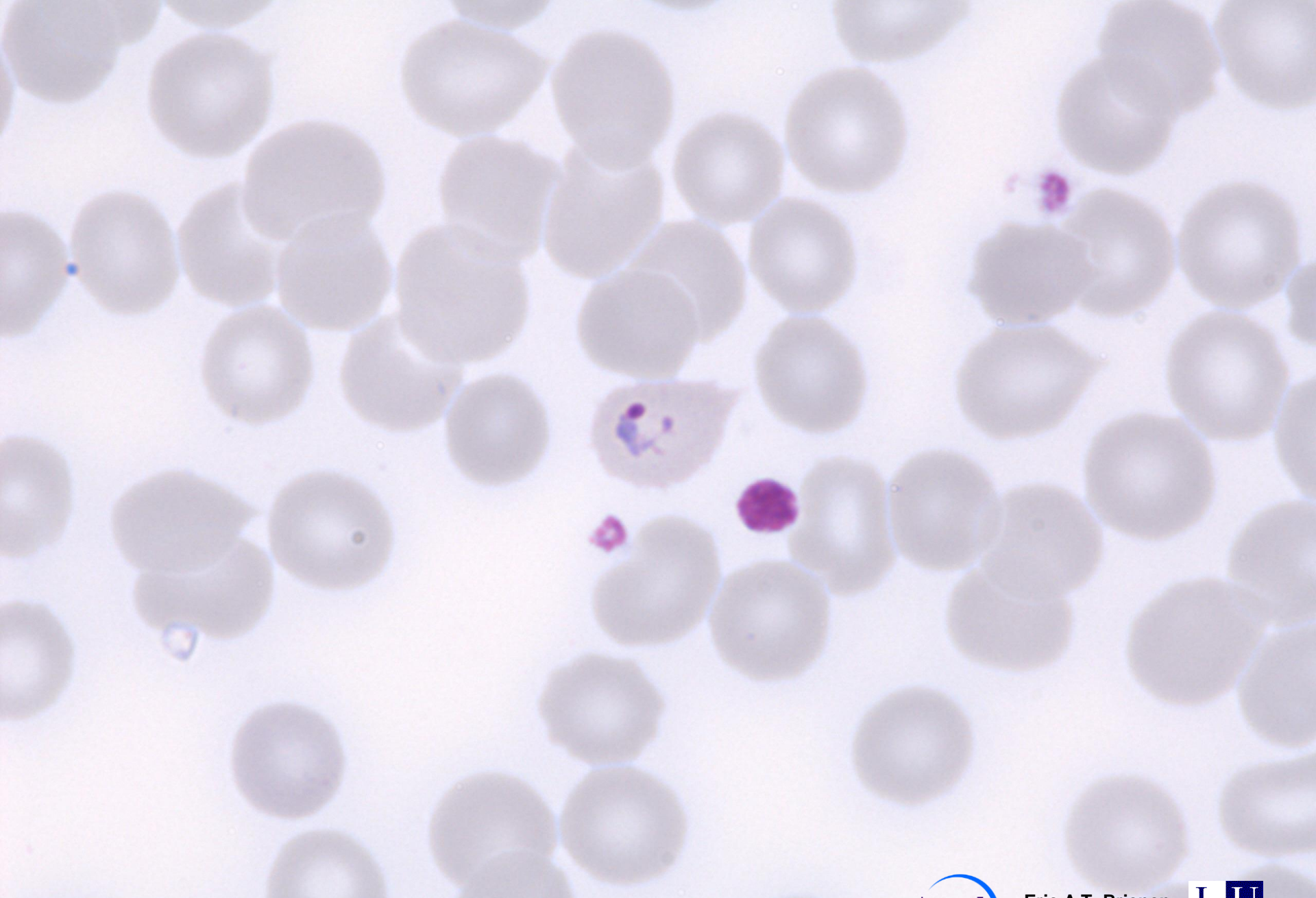
SKML 2022.4B
Plasmodium ovale (3 trophozoïtes)



SKML 2022.4B
Plasmodium ovale (mature schizont with separate merozoites)



SKML 2022.4B
Plasmodium ovale (trophozoïte with Schuffner's dots)



SKML 2022.4B

Plasmodium ovale (trophozoïte and fimbriae)



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SKML 2022.4B
Plasmodium ovale (gametocyte)

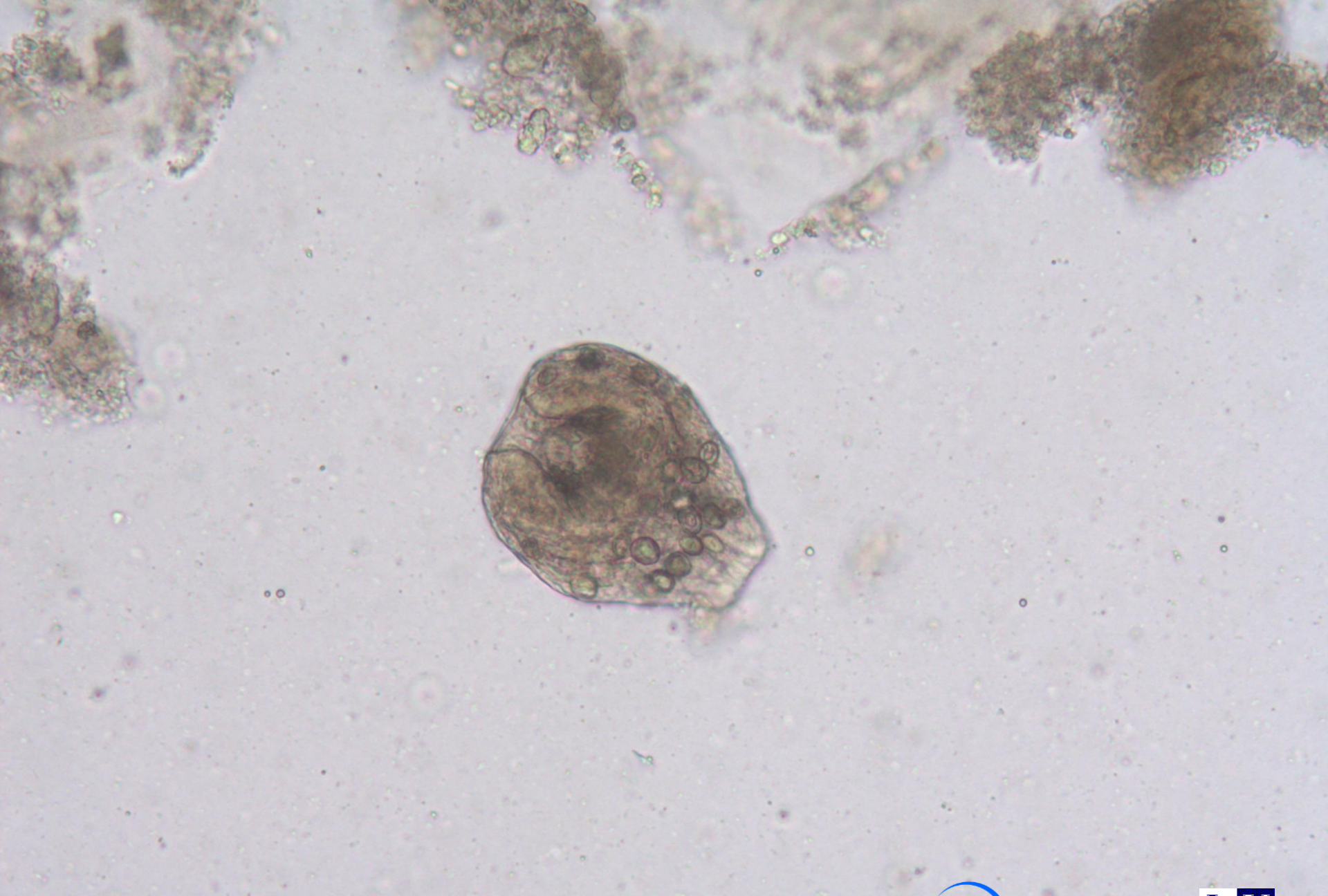


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SKML 2022.1A

Echinococcus granulosus (protoscolices)



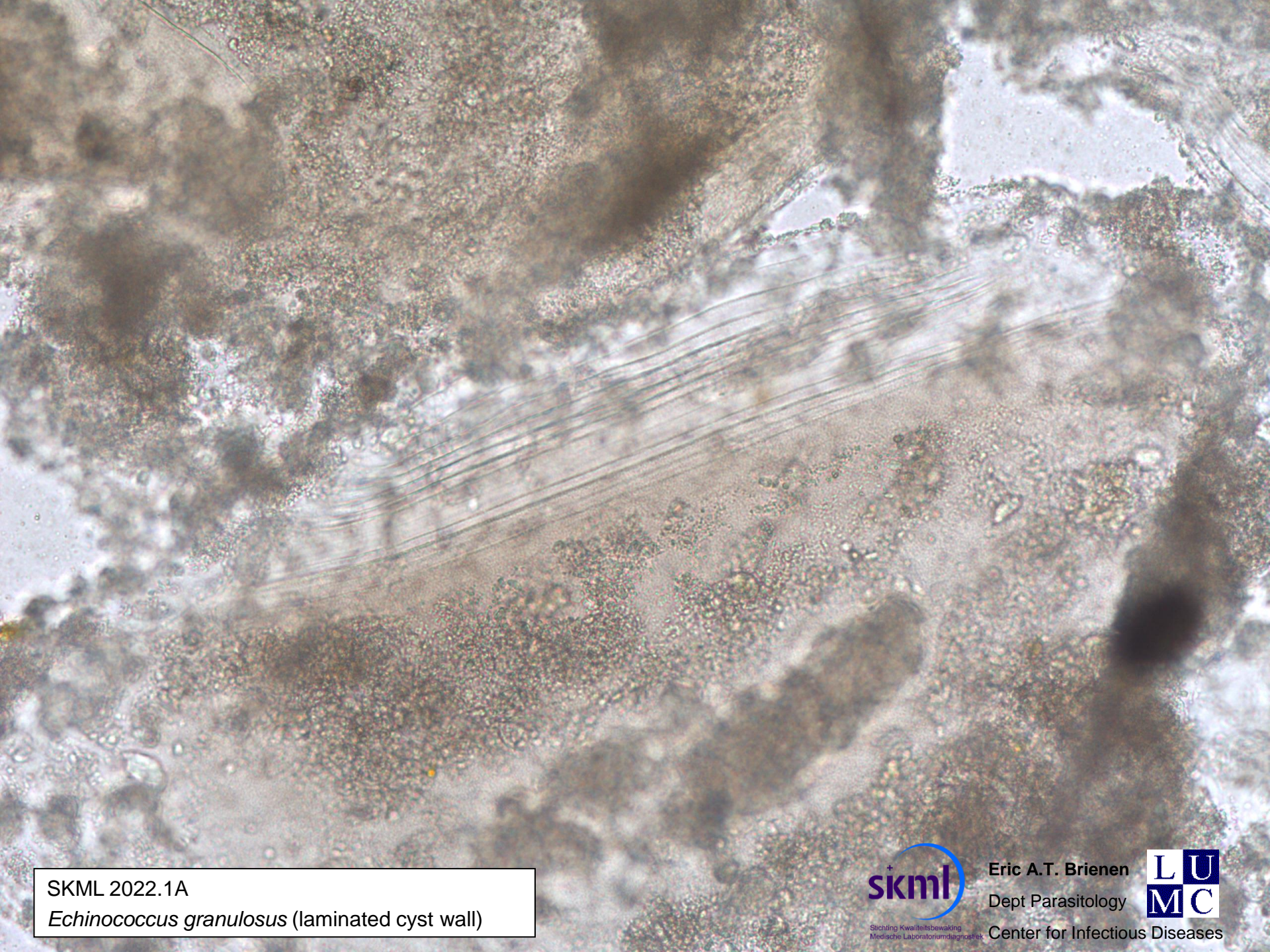
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SKML 2022.1A

Echinococcus granulosus (laminated cyst wall)



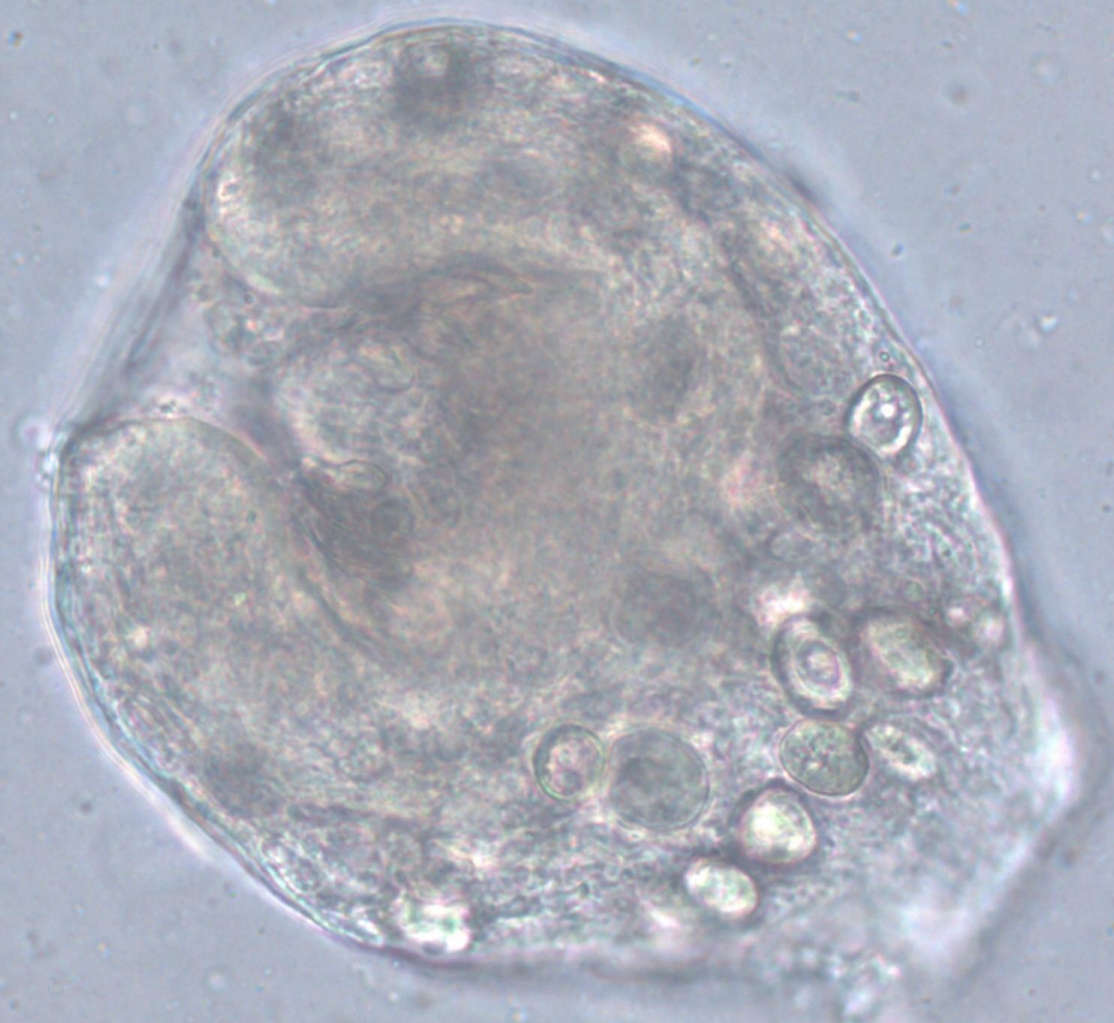
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SKML 2022.1A
Echinococcus granulosus (protoscolices)



SKML 2022.1B

Hymenolepis diminuta (egg)

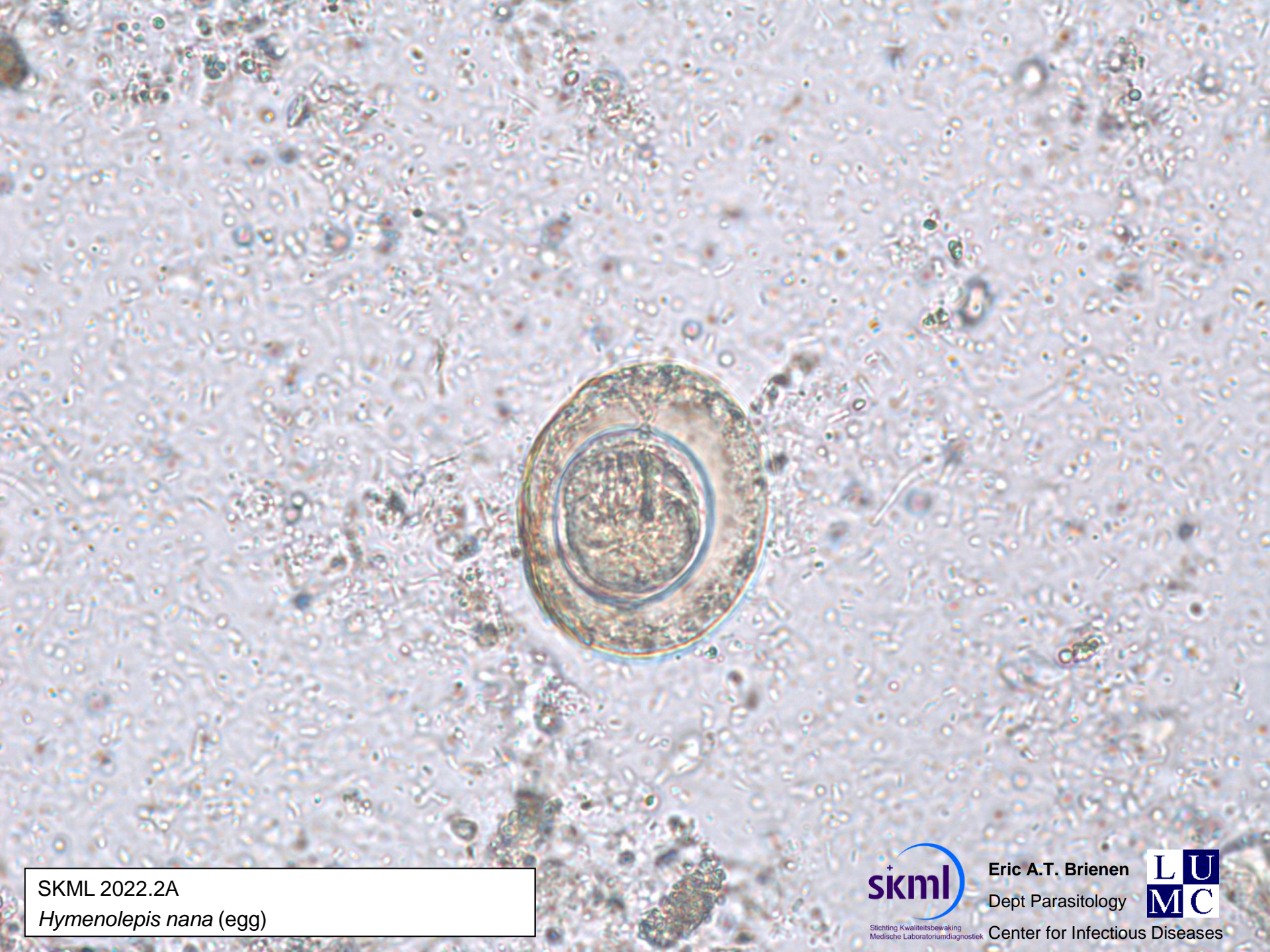


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SKML 2022.2A

Hymenolepis nana (egg)



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SKML 2022.2B
Ascaris spp. (fertilized egg)

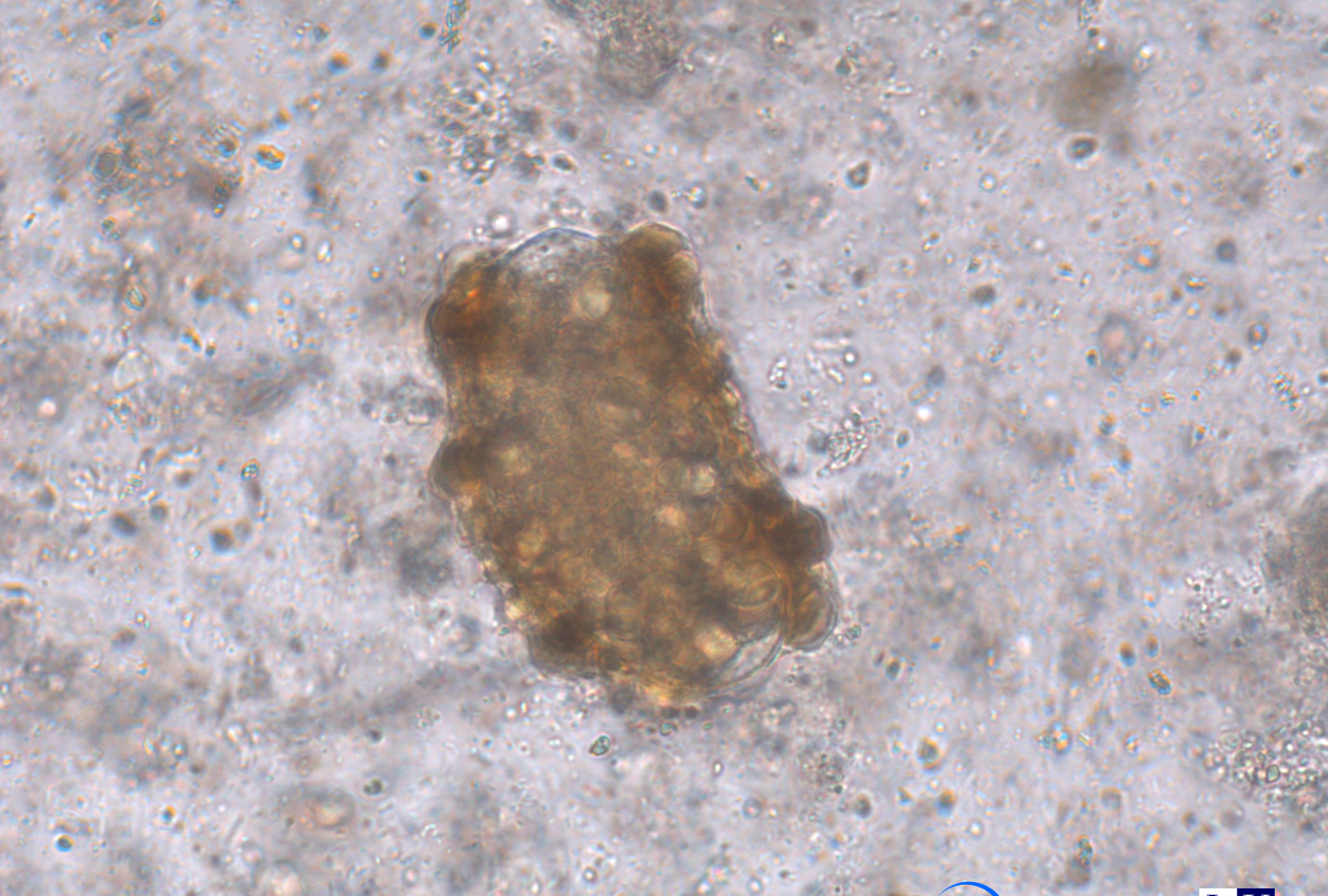


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SKML 2022.2B
Ascaris spp. (unfertilized egg with broken mammillated layer)

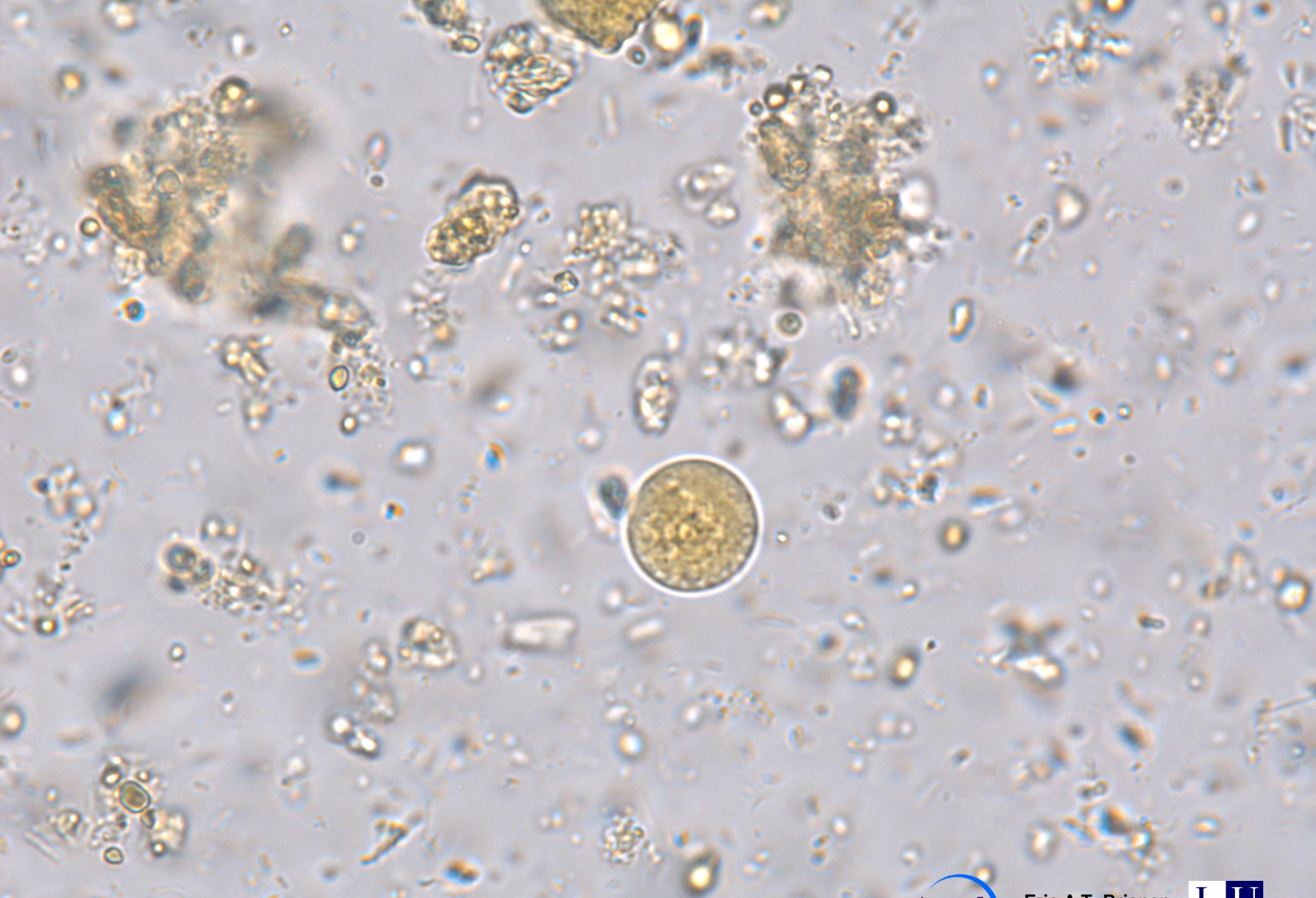


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SKML 2022.2B

Entamoeba histolytica/dispar (cyst, iodine stained)

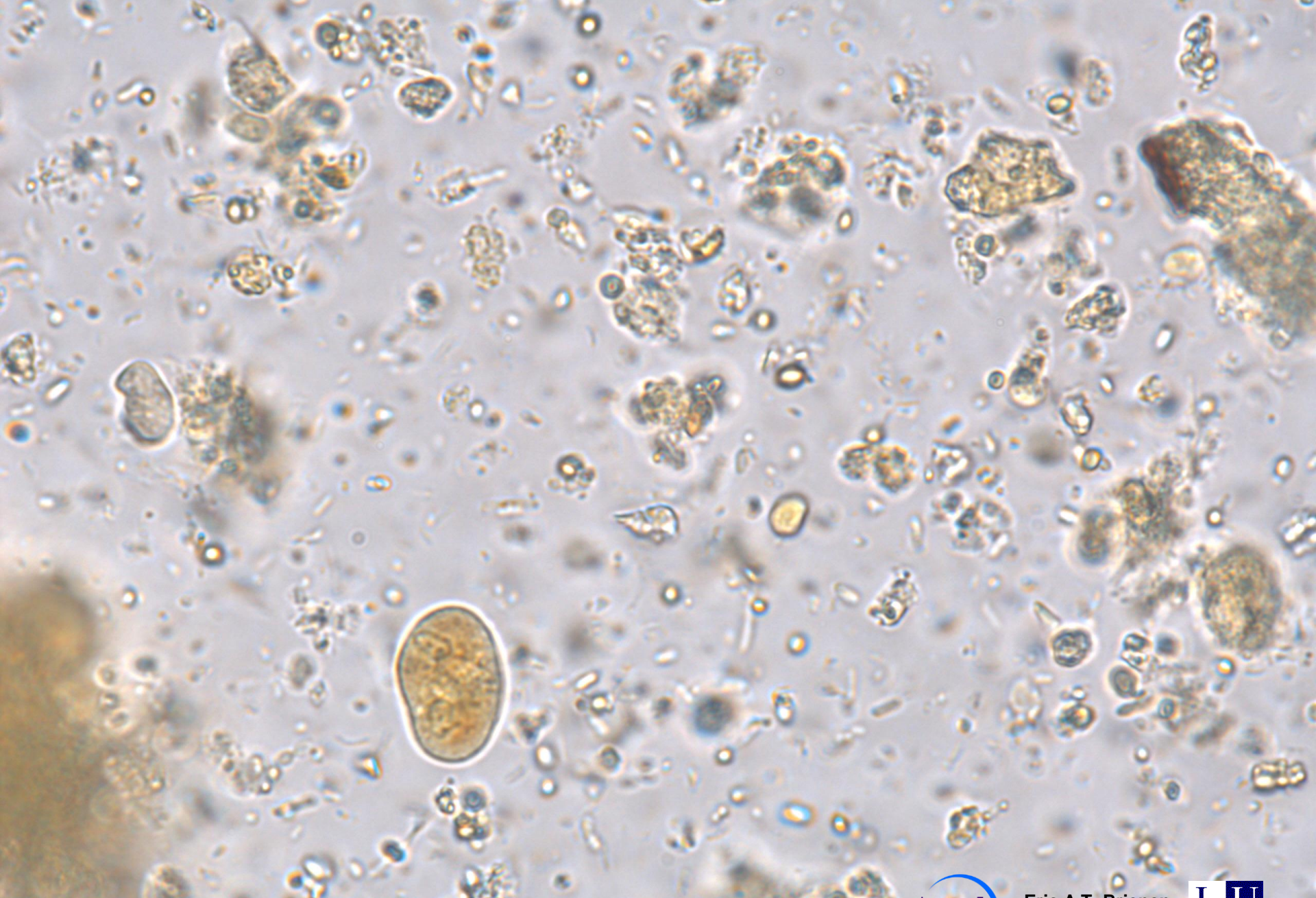


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SKML 2022.2B

Entamoeba histolytica/dispar (cyst with 2 nuclei, iodine stained)



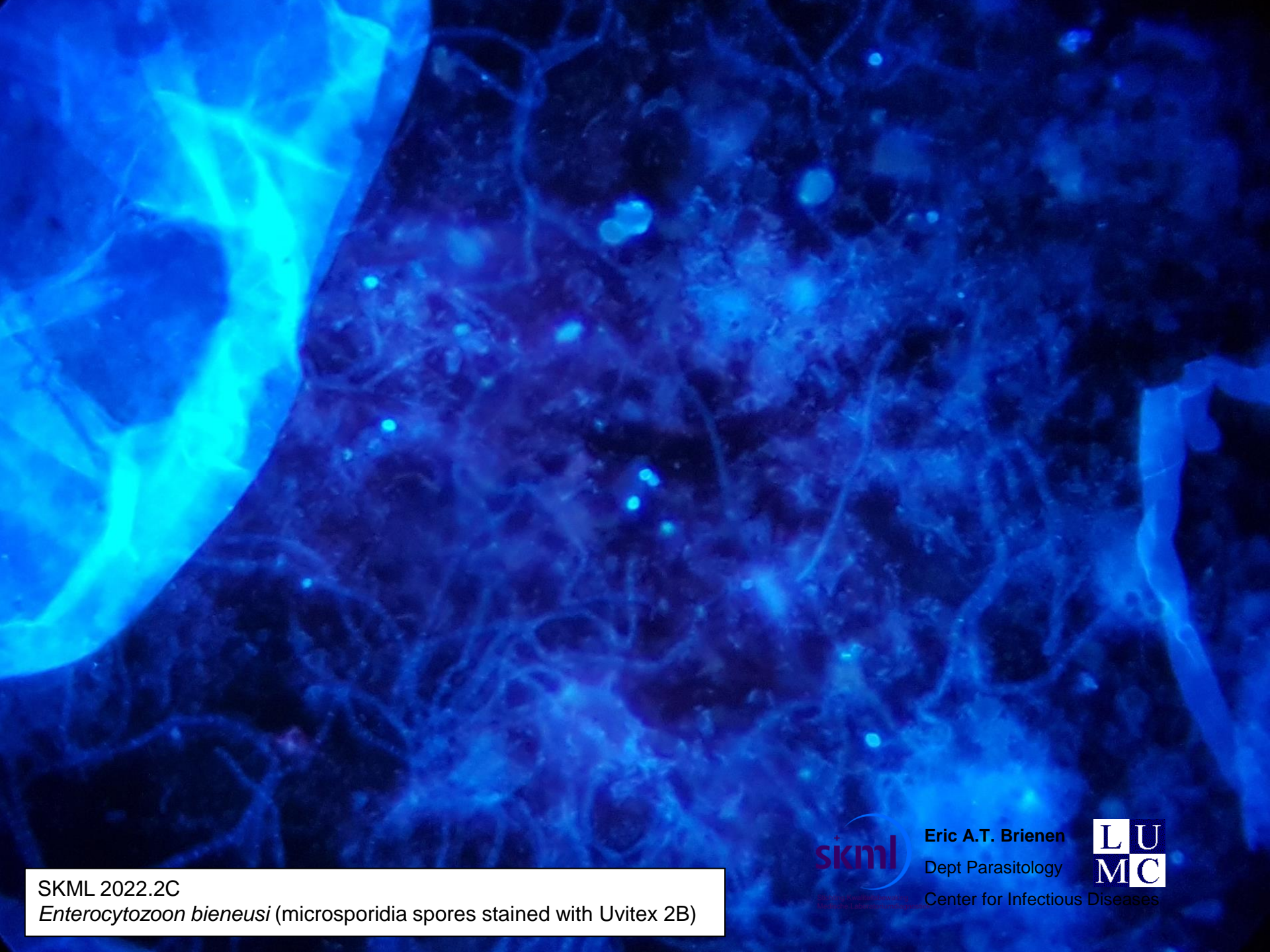
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SKML 2022.2C

Enterocytozoon bienersi (microsporidia spores stained with Uvitex 2B)

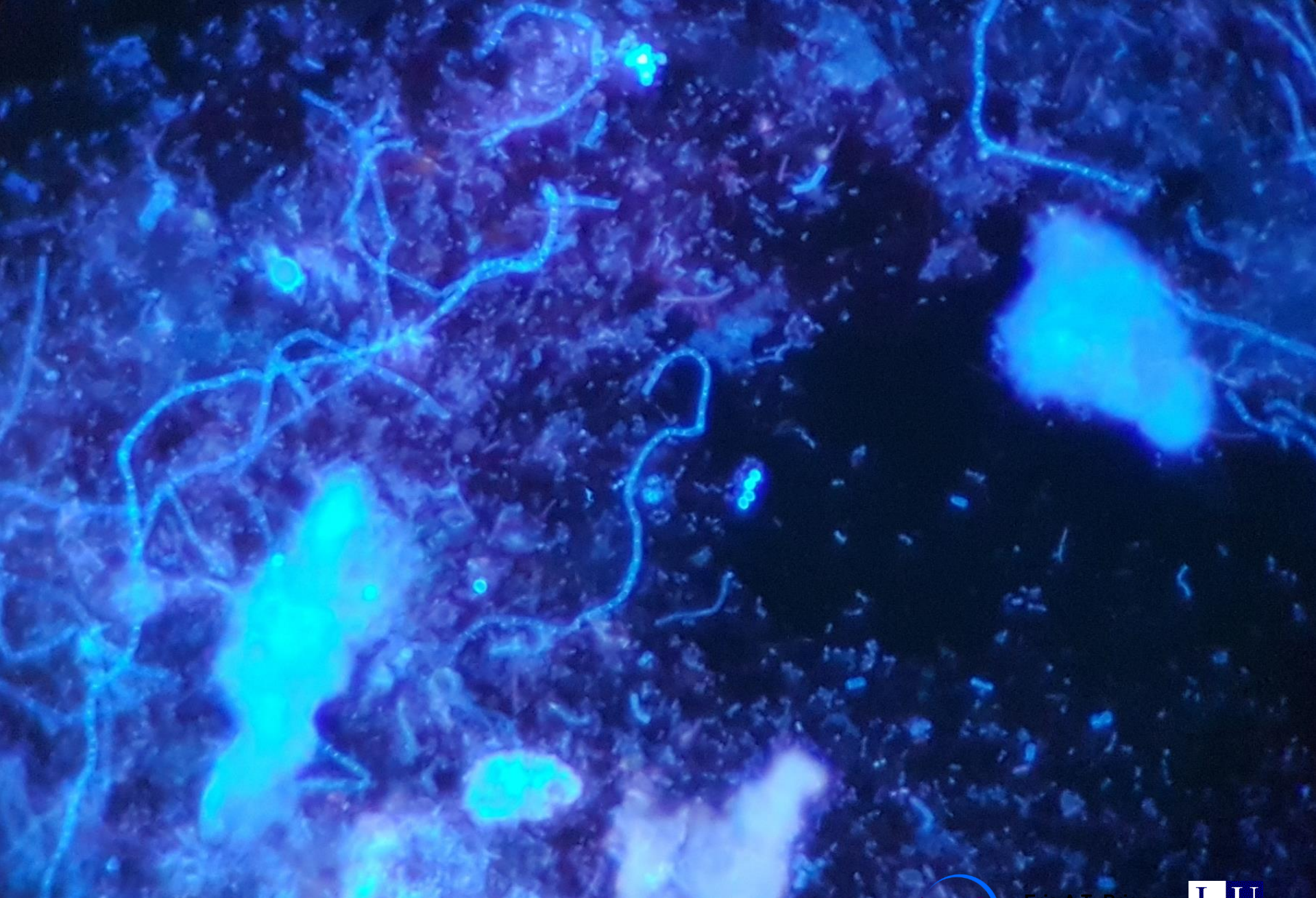


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SKML 2022.2C

Enterocytozoon bieneusi (microsporidia spores stained with Uvitex 2B)



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SKML 2022.3A

Echinococcus granulosus (hook in cyst fluid)



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SKML 2022.3A

Echinococcus granulosus (hook in cyst fluid)



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SKML 2022.3B
Enterobius vermicularis (egg)



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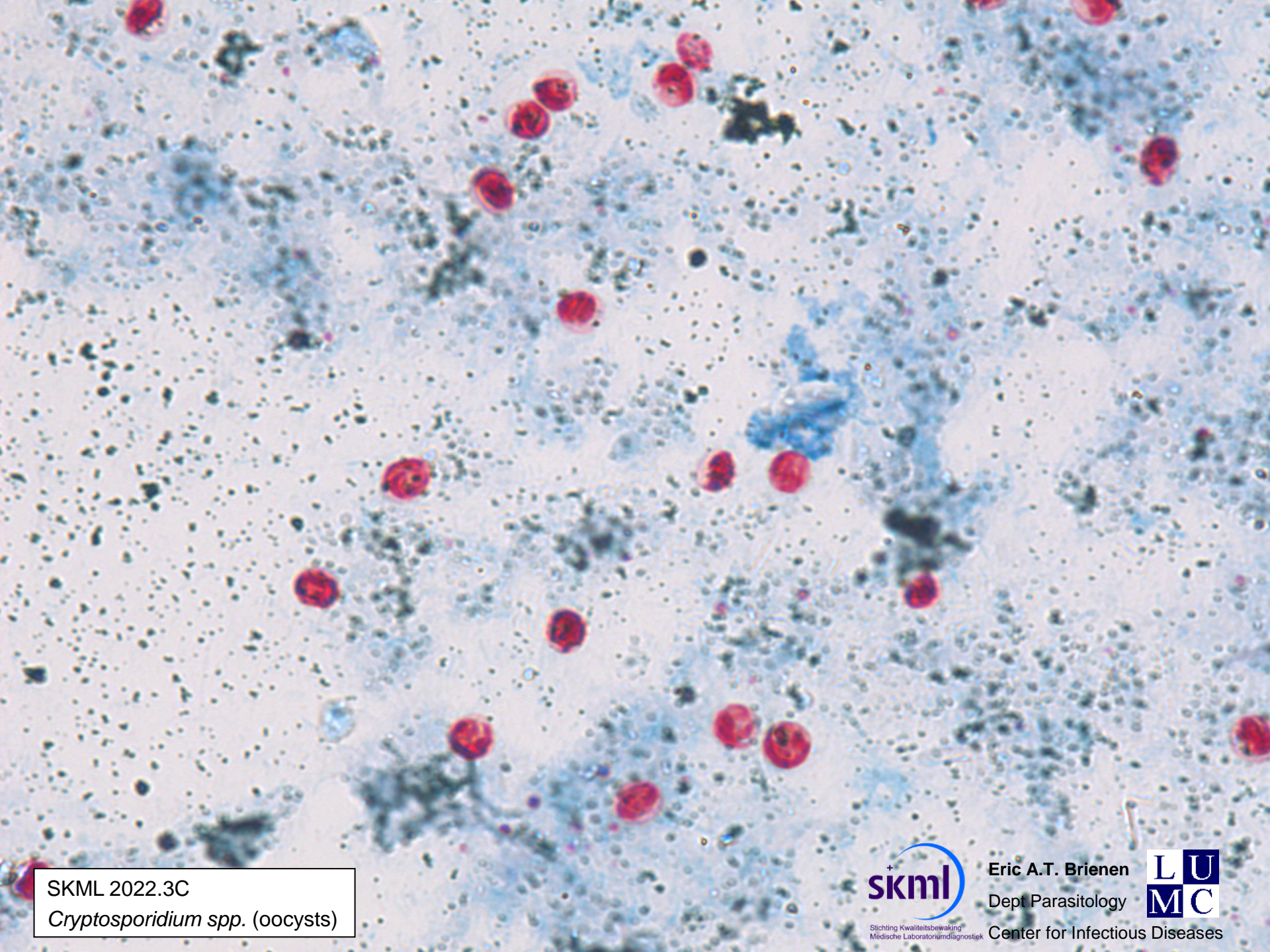
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SKML 2022.3B
Enterobius vermicularis (egg)



SKML 2022.3C
Cryptosporidium spp. (oocysts)

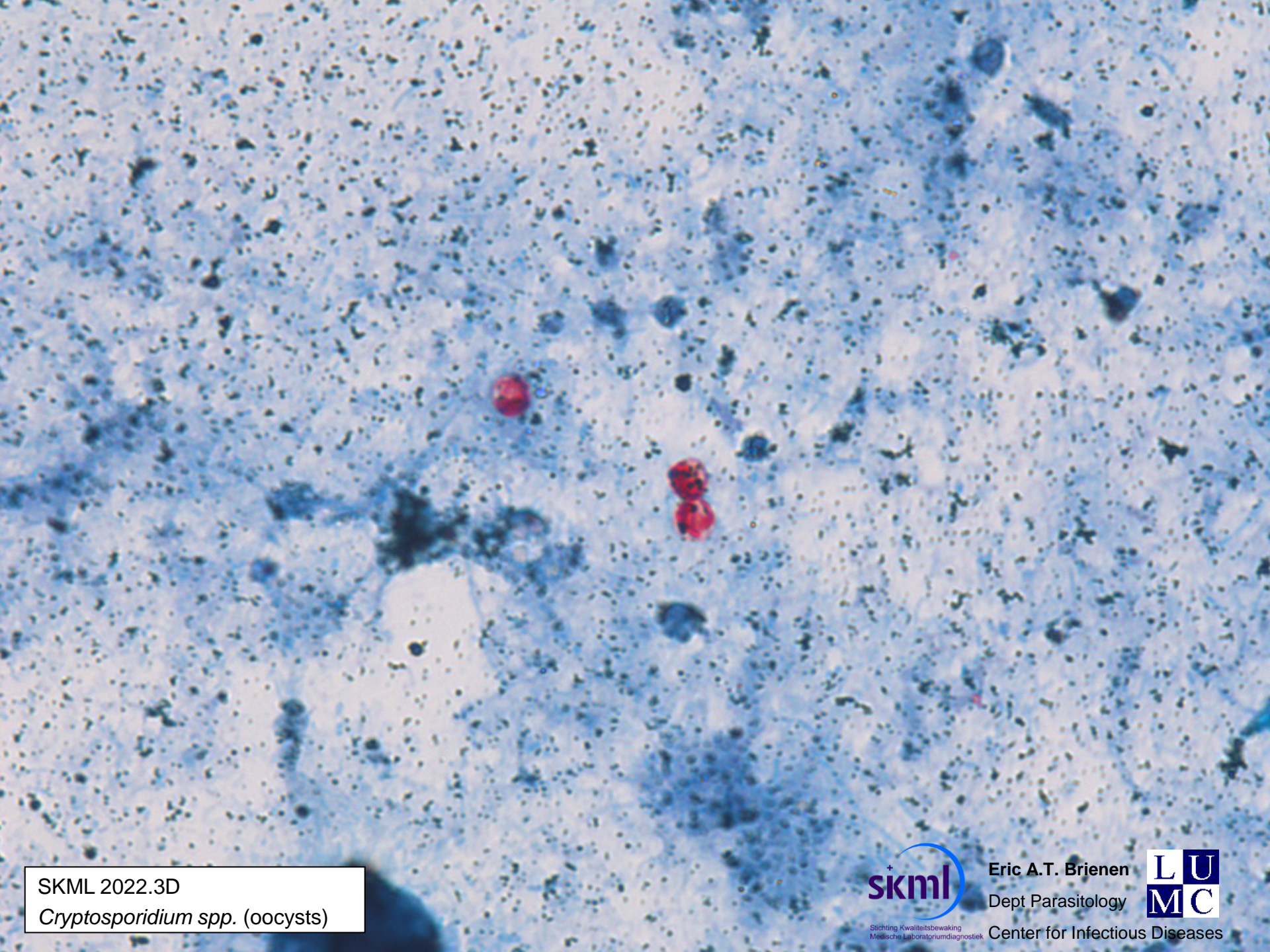


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SKML 2022.3D

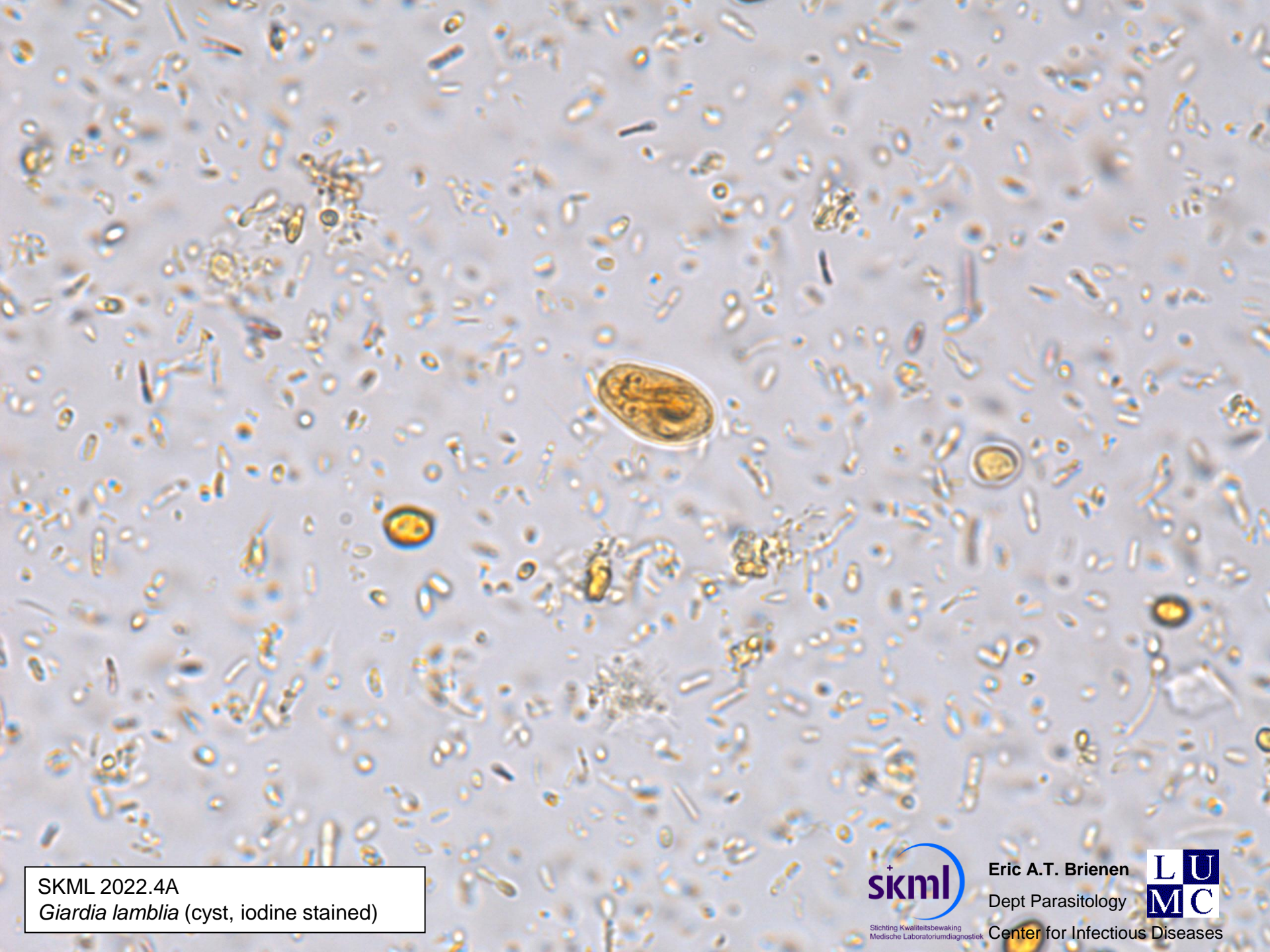
Cryptosporidium spp. (oocysts)



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SKML 2022.4A
Giardia lamblia (cyst, iodine stained)

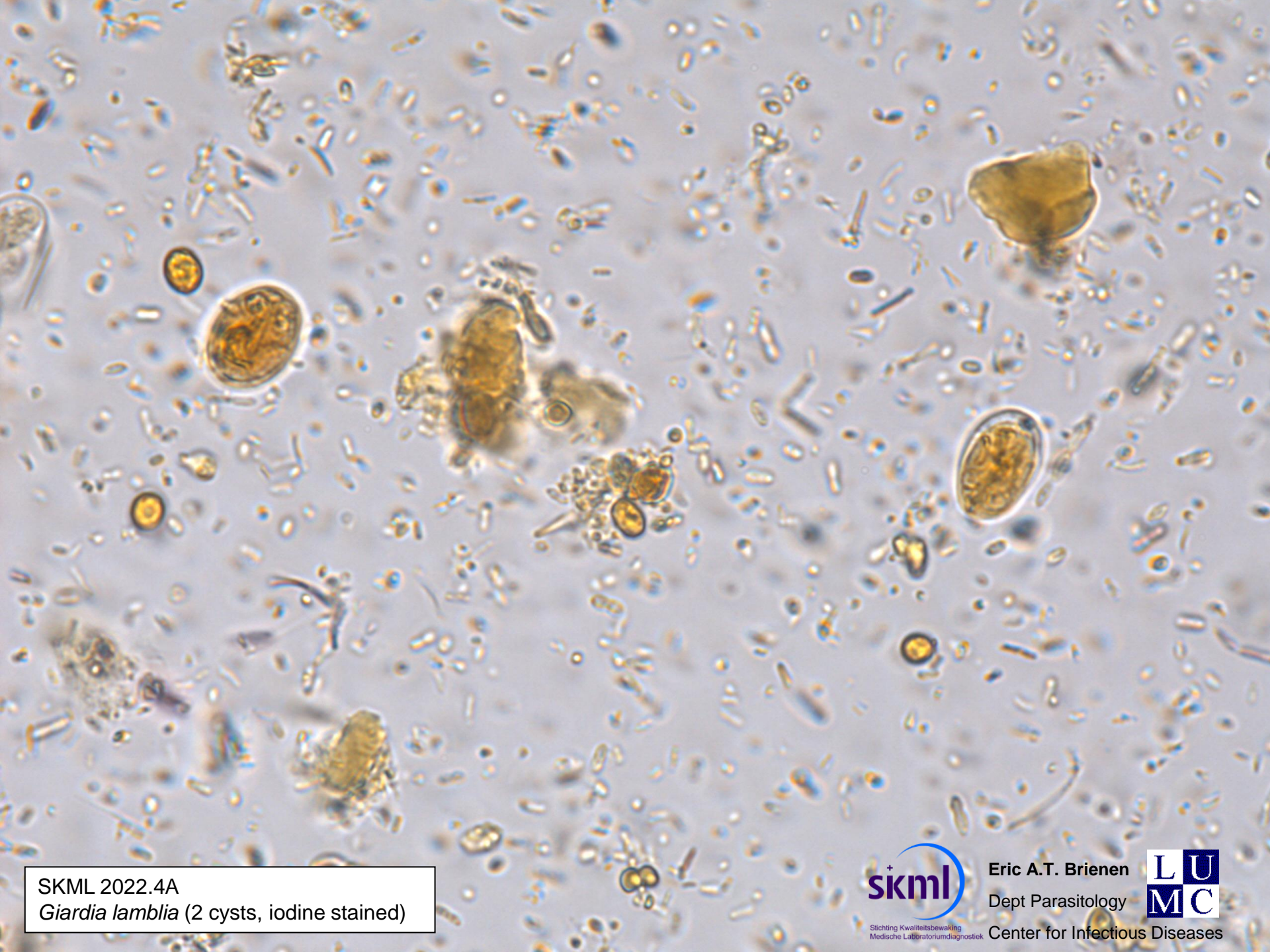


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SKML 2022.4A
Giardia lamblia (2 cysts, iodine stained)



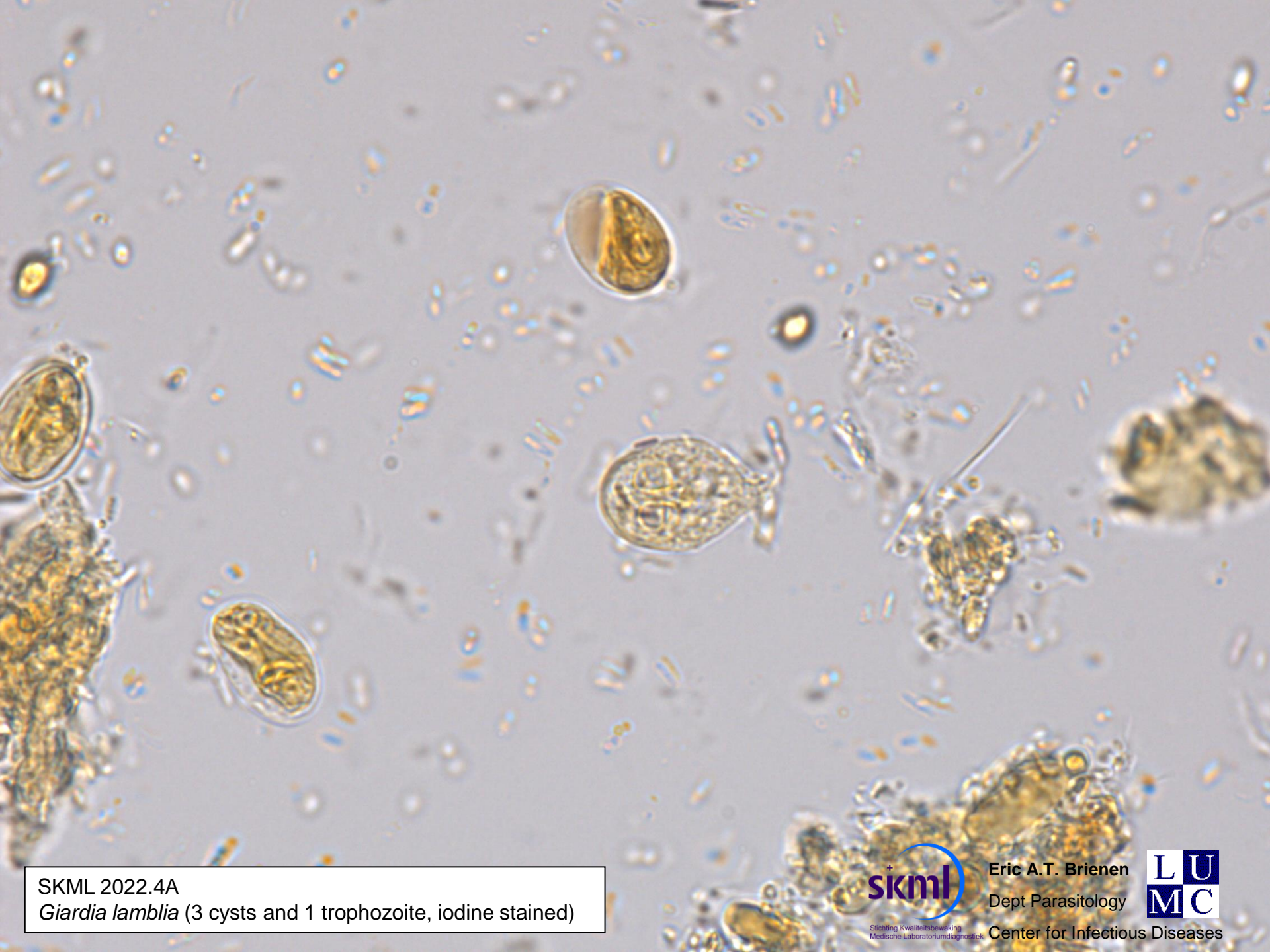
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SKML 2022.4A
Giardia lamblia (3 cysts and 1 trophozoite, iodine stained)



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SKML 2022.4B
Strongyloides stercoralis (L1 rhabditiform larva)



SKML 2022.4B
Strongyloides stercoralis (genital primordium)



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SKML morphology parasitology – explanations

2022.1A *Plasmodium vivax* (only thick smear)

2022.1B *Plasmodium falciparum* \approx 1,5 %

2022.2A *Trypanosoma brucei* spp.

2022.2B *Plasmodium falciparum* \approx 1,4 % (only thin smear)

2022.3A *Plasmodium falciparum* (with schizonts and gametocytes) \approx 27 %

2022.3B *Plasmodium falciparum* \approx 1,75 %

2022.4A *Plasmodium falciparum* \approx 0,05 %

2022.4B *Plasmodium ovale*

2022.1A *Echinococcus granulosus* (with protoscolices)

2022.1B *Hymenolepis diminuta* (eggs)

2022.2A *Hymenolepis nana* (eggs)

2022.2B *Ascaris* spp. (eggs) + *Entamoeba histolytica/dispar* (cysts)

2022.2C *Enterocytozoon bieneusi* (spores)

2022.3A *Echinococcus granulosus* (only hooks)

2022.3B *Enterobius vermicularis* (eggs)

2022.3C *Cryptosporidium* spp. (oocysts)

2022.3D *Cryptosporidium* spp. (oocysts)

2022.4A *Giardia lamblia* (cysts and trophozoites) + *Hymenolepis nana* (eggs)

2022.4B *Strongyloides stercoralis* (rhabditiform larvae)