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A Microfluidic Approach to Whole Blood Leucocytes Isolation for Leucocytes Phenotyping by Flow Cytometry

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Abstract

Typical whole blood leucocytes isolation methods for flow cytometry

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1. Our children, Ben and Ruth

Ben's 30. birthday, weekend in Pismo Beach, visit in Reno with trips to the automobile museum in Reno, Lake Tahoe, and to our country cabin in Fallon

2. Parents and relatives

Family pictures from St. Wendel, Völklingen and the area around Stuttgart

3. Father's suffering and death

After several years of suffering Diether's father died. Mother's and Gundi's care had helped him through his ordeal.

4. Johannes in the USA

Desatoya mountains, train ride from Truckee to Reno, life in the country, Lake Tahoe, San Francisco, and the Middlegate and Roxy bars in Nevada

5. Diether's retirement party

Farewell from work associates and Bay Area friends at Carlos Goldstein's on October 23 (last workday at BD was October 26)

6. Move from San Jose to Nevada

Jutta and Petra have worked hard to organize all the details for the move from San Jose to Nevada. On Friday, October 26, all of our San Jose belongings were loaded into a u-Haul moving truck. Diether and Petra drove the truck to Reno, while Jutta was driving our Buick. With continued sunny weather we unpacked and repacked the truck in Reno on Saturday morning, and continued to Fallon. There we unpacked on Sunday morning, and returned the truck to a u-Haul rental place in Fallon. We returned to Reno in our car.

7. The canyons of Utah and Arizona

To get some rest after the strenuous move, we drove to National Parks in Utah and Arizona (Zion, Bryce Canyon, Grand Canyon). Diether qualified for a lifelong senior pass. We returned to Reno via the Hoover Dam and Las Vegas.

8. Air travel to Europe and New York

In 2012 we traveled to conferences and professional events in Ettal (Germany), Rom (Italy), Leipzig (Germany), New York, and Lund (Sweden).

9. Reno

We enjoy walks from our house to the casinos in downtown.

10. Our cabin in the country close to Fallon

This year we worked hard to improve our cabin (furniture, washer) and lot (lawn, weed removal, solar cells, batteries).

11. Water supply for field and garden

Several canals and ditches, which are fed by the Lahontan reservoir, provide water for growing plants in the desert. We are responsible for maintaining the irrigation hardware of our lot (pump, hoses, timers).

12. Work in the country

Weeds grow well even in the desert, and have to be eliminated with weed killers or have to be cut and burnt. The burning of weeds on a wet cold winter day can be quite pleasant.

13. Animals close to the cabin

Many animals, small and big, live around the cabin or close-by e.g. beetles, colorful spiders, all kinds of birds, snakes, lizards, rabbits, deer, and coyotes. Most of them are welcome, mosquitoes are the big exception.

14. Work in the garden

Maintaining a garden requires some effort. With the help of friends and relatives we work the garden; the neighbor takes care of the big field with his agricultural machinery.

15. Harvest

Despite the tall weeds we harvested many tomatoes, carrots, and squash. In Reno our apple-tree provided us with a rich harvest. In some pictures we wear protective pants and jackets against the mosquitoes.

16. Christmas and New Year Day

Jutta and Diether spend the Christmas day in Reno. Ben and Ruth arrived in Reno two days after Xmas and stayed until January 2.







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