**Table S1:** Samples used for Microarray Analysis

|  |  |  |
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| **Array Name** | **Group** | **Primary Diagnosis** |
| KT979\_01-30-07 | ARIA | "AR IA, recurrent GN" |
| KT496\_01-30-07 | ARIA | ARIA |
| KT1043\_02-12-07 | ARIA | ARIA |
| KT1100\_02-14-07 | ARIA | ARIA |
| KT863\_03-21-07 | ARIA | AR IA+DT |
| KT775\_02-22-07 | ARIA | ARIA; suspicious for ARIIA; tubular atrophy |
| KT1086\_02-12-07 | ARIA | AR Banff IA + CAN ; positive C4D suggests humoral component;  |
| KT1045\_02-12-07 | ARIB | ARIB |
| KT942\_02-14-07 | ARIB | AR IB |
| KT725\_02-14-07 | ARIB | AR IB |
| KT543\_01-30-07 | ARIB | ARIB ARIIA |
| KT1070\_02-22-07 | ARIB | ARIB, ARIIA, features of humoral rejection with transplant glomerulopathy |
| KT649\_02-22-07 | ARIB | ARIB |
| KT673\_02-14-07 | BL | Borderline |
| KT578\_02-14-07 | BL | no definite AR, focal interstitial inflammation, potentially resolving AR |
| KT951\_02-22-07 | BL | AR Borderline |
| KT559\_02-12-07 | BL | borderline AR; CNIT |
| KT614\_02-06-07 | STA | Normal |
| KT1239\_2\_18\_09 | STA | Normal |
| KT641\_06-25-07 | STA | Normal |
| KT387\_02-07-07 | STA | Normal |
| KT901\_06-28-07 | STA | Normal |
| KT905\_06-25-07 | STA | Normal |
| KT417\_02-07-07 | STA | Normal |
| KT588\_02-06-07 | STA | Normal |
| KT889\_06-28-07 | STA | Normal |
| KT903\_2\_16\_09 | STA | Normal |
| KT839\_06-25-07 | STA | Normal |
| KT860\_2\_16\_09 | STA | Normal |
| KT929\_2\_16\_09 | STA | Normal |
| KT977\_06-28-07 | STA | Normal |
| KT540\_02-06-07 | STA | Normal |
| KT612\_02-06-07 | STA | Normal |
| KT922\_01-26-07 | D0 | day zero |
| KT613\_01-26-07 | D0 | day zero |
| KT616\_06-25-07 | D0  | day zero |
| KT623\_2\_16\_09 | D0  | day zero |
| KT636\_01-24-07 | D0  | day zero |
| KT650\_02-06-07 | D0  | day zero |
| KT651\_02-14-07 | D0  | day zero |
| KT690-2\_03-20-07 | D0  | day zero |
| KT707-1\_2\_16\_09 | D0  | day zero |
| KT717\_2\_16\_09 | D0  | day zero |
| KT730\_01-26-07 | D0  | day zero |
| KT736\_01-26-07 | D0  | day zero |
| KT738\_06-25-07 | D0  | day zero |
| KT752\_06-25-07 | D0  | day zero |
| KT755\_02-06-07 | D0  | day zero |
| KT764\_2\_16\_09 | D0  | day zero |
| KT1018 B\_2\_24\_09 | D0  | day zero |
| KT776\_05-25-07 | D0  | day zero |
| KT778\_2\_16\_09 | D0  | day zero |
| KT781\_02-01-07 | D0  | day zero |
| KT783-1\_2\_16\_09 | D0  | day zero |
| KT796\_05-25-07 | D0  | day zero |
| KT801\_06-25-07 | D0  | day zero |
| KT812\_05-25-07 | D0  | day zero |
| KT814\_05-25-07 | D0  | day zero |
| KT816\_06-25-07 | D0  | day zero |
| KT818\_05-25-07 | D0  | day zero |
| KT819\_06-25-07 | D0  | day zero |
| KT1422\_1\_26\_11 | D0  | day zero |
| KT1441\_1\_26\_11 | D0  | day zero |
| KT412\_02-01-07 | D0  | day zero |
| KT575 | D0  | day zero |
| KT609\_2\_16\_09 | D0  | day zero |